DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, DC 20380-0001

MCO 1510.95A
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MARINE CORPS ORDER 1510.95A

From: Commandant of the Marine Corps
To: Distribution List

Subj: INDIVIDUAL TRAINING STANDARDS (ITS) SYSTEM FOR ENGINEER, CONSTRUCTION, AND EQUIPMENT OCCUPATIONAL FIELD (OCCFLD) 13

Ref: (a) MCO 1510.34A
(b) MCO 1553.1B
(c) MCO 1553.2
(d) MCO 1553.3
(e) MCO 3500.27

Encl: (1) Description of an Individual Training Standard
(2) Management of Individual Training Standards
(3) Summary/Index of Individual Training Standards
(4) Common Individual Training Standards
(5) Training Support
(6) Individual Training Standards
(7) Summary/Index of Individual Training Standards by Specific Category (MOJT, DL, PST)

1. Purpose. To publish revised Individual Training Standards (ITS) at enclosures (1) through (7) for OccFld 13.

2. Cancellation. MCO 1510.95

3. Background

a. The references establish the system used to publish all training standards, provide policy, and assign training responsibilities, especially as applied to the Systems Approach to Training (SAT).

b. ITSs establish the training requirements for all Marines in the same occupational field (OccFld), Military Occupational Specialty (MOS), or billet. They provide a foundation upon which unit commanders, Functional Learning Center (FLC) directors, and distance learning (DL) developers build training packages for individual Marines as part of unit training plans or formal courses of instruction.

c. ITSs represent the skills that contribute to the unit mission as expressed in the Mission Performance Standards (MPS). Changes to doctrine or force structure or the introduction of new weapons or equipment may necessitate revision of this Order.

4. Summary of Revision. Revisions to this Order include incorporation of all changes required since the last publication including addition/deletion of tasks, changes to grade, training setting, performance steps, and references. In general, all ITS information is linked to tasks. Enclosure (6) now contains information on initial training setting, Marine Corps Institute (MCI) products, ammunition, and training material (when applicable). Appendix D to Enclosure (5) now lists references with associated tasks.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

5. Information

a. ITSs are used by unit commanders, FLC directors, and DL developers to design, develop, conduct, and evaluate the individual training of Marines. Unit commanders are responsible for the sustainment of all individual tasks that have been deemed, through analysis, to support the unit's Mission Essential Task List (METL). Unit commanders can, therefore, use the tasks contained in this Order as the basis of individual training through Managed On-the-Job Training (MOJT), instruction in unit-level schools, or incorporation in their training plans. FLC directors and DL developers will derive Terminal Learning Objectives (TLO) and Enabling Learning Objectives (ELO) from the tasks, conditions, standards, and performance steps of each associated ITS. Task lists reported on Course Descriptive Data (CDD) submissions will consist of tasks contained in this Order that are designated for training at the appropriate level in the FLC. Task lists reported on Distance Learning Descriptive Data (DLDD) submissions will consist of tasks contained in this Order that are designated for DL training at the appropriate level.

b. Unit commanders and FLC directors are responsible for reviewing their training programs per reference (e) and making interventions that reduce risk to acceptable levels.

6. Action

a. Commanding General, Marine Corps Combat Development Command (CG MCCDC)

(1) Ensure all FLCs use this Order to train personnel to the standards required by grade and MOS.

(2) Ensure the Marine Corps Institute (MCI) and the Training and Audiovisual Support Centers (TAVSC) provide standardized performance support tools (PST) and other training support requirements to facilitate training in units.

(3) Review, revise, and manage the upkeep of this Order in coordination with Operating Force and Supporting Establishment commanders and MOS Specialists/OccFld Managers.

(4) Ensure the Combat Development System identifies and mitigates the impact on training, by MOS and ITS, of all new equipment.

b. Commanding Generals of the Marine Forces and Supporting Establishment Commands and Commanders of Separate Organizations not Commanded by a General Officer

(1) Use this Order as the basis for individual training.

(2) Conduct MOJT programs and/or instruction in unit level schools to satisfy initial, sustainment, and refresher training requirements in so far as the tasks support unit mission requirements.

(3) The MAGTF engineer unit's organization and equipment allow performance of a variety of missions and tasks in any environment. One of the secondary missions of all Combat Engineers is their ability to be employed as infantry. Any infantry related training tasks that are required within the engineer unit should be referenced from MCO 1510.35, Individual Training Standards (ITS) for OccFld 03.

7. Submission of Recommendations and Requirements. Recommendations concerning the content of this Order are invited. Submit recommendations for additions, deletions, or modifications to CG MCCDC (C461) via the chain of command.

8. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

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//signature//
T. S. JONES
By direction

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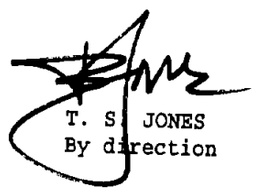

DESCRIPTION OF AN INDIVIDUAL TRAINING STANDARD

1. ITS Designator. Each ITS has a unique three-part identifier that represents an MOS (or billet), a duty (or functional) area within that MOS, and a specific task included in that duty area. Each part is separated by periods. An example of an ITS Designator is 1302.02.04.

a. The first four positions ("1302" in the example above) represent the MOS or billet. For any ITS associated with an official MOS, the four digits must be identical to those assigned to the MOS in MCO P1200.7 (MOS Manual).

b. The middle two positions ("02" in the example above) represent the duty or functional area. Duty areas within a given MOS are assigned Arabic numerals. Duty areas 1 through 9 are always preceded by a leading zero. In the example above, "02" represents the second duty area under MOS 1302.

c. The last two positions ("04" in the example above) represent a specific task. Tasks within a specific duty or functional area are assigned Arabic numerals. Tasks 1 through 9 are always preceded by a leading zero. In the example above, "04" represents one task within the second duty area under MOS 1302.

2. ITS Components. There are six basic components of an ITS, five of which are mandatory:

a. Task. The task describes a specific and necessary behavior expected of a Marine in a particular MOS or billet. It is a clearly stated, performance-oriented action requiring a learned skill. Skills that "make" a Marine or qualify that Marine for an MOS are designated as "Core." Those advanced skills that are mission, grade, or billet specific are designated as "Core Plus."

b. Condition(s). This portion of the ITS describes the equipment, manuals, assistance/supervision, special physical demands, environmental conditions, and location affecting a Marine’s performance of the task under real-world circumstances.

c. Standard(s). This portion of the ITS describes the level of proficiency to which the individual must perform the task.

d. Performance Steps. Collectively, the performance steps represent the logical sequence of actions required of the Marine to perform the task to standard. These actions are typically detailed in the references.

e. Reference(s). References are doctrinal publications, technical manuals, and other publications upon which the ITS and its performance steps are based. They should be readily available and provide detail to the procedures that are only summarized in the performance steps.

f. Administrative Instructions (Optional). Administrative instructions provide the trainer/instructor with special required or recommended circumstances, including safety precautions, relating to the training or execution of the task. These instructions may also clarify the meaning of the task.

3. ITS Training

a. Initial Training Setting. All ITSs are assigned an initial training setting

that includes a specific location for initial instruction [Functional Learning Center (FLC) or Managed On-The-Job Training (MOJT)], a sustainment factor (number of months between evaluation or retraining to maintain the proficiency required by the standard), and a "Required By" grade (the lowest grade at which task proficiency is required).

b. Training Materiel (Optional). Training materiel includes all training devices, simulators, aids, equipment, and materials [except ammunition, distance learning (DL) products, and performance support tools (PST)] required or recommended to properly train the task under the specified conditions and to the specified standard.

c. Ammunition (Optional). This section includes any ammunition, explosives, and/or pyrotechnics required for proper training of the ITS.

d. Distance Learning Product(s) (Optional). This section includes a list of any currently available or planned DL products designed to provide training related to this task.

e. Performance Support Tool(s) (Optional). This section includes a list of any currently available or planned PSTs designed to provide training related to this task.

MANAGEMENT OF INDIVIDUAL TRAINING STANDARDS

1. ITS Use

a. ITSs form the basis for all individual training in Functional Learning Centers (FLC) and units. They are written for all MOSs in order to specify the critical skills required by units of their individual Marines in support of the unit's combat missions as defined in the unit's Mission Essential Task List (METL).

b. FLC directors are responsible for reviewing all ITSs marked for initial training at the FLC. They must conduct courses of instruction on those ITSs appropriate for their student populations in terms of grade or rank. The task portion of each ITS taught in a given course must appear in the Task List (Item 24) of the CDD for that course. In accordance with the Systems Approach to Training (SAT), a Program of Instruction (POI) must also be developed for the course.

c. ITSs provide measures of performance that can be used by unit commanders to diagnose individual deficiencies and design training. Noted deficiencies should be scheduled for remediation on training plans or through Managed On-The-Job Training (MOJT), as appropriate.

d. A Marine should continue to receive instruction on ITSs that support the unit's METL. Individual training cannot cease upon graduation from the FLC because FLCs cannot prepare every Marine to serve in every billet. Individuals should be given opportunities in the unit to gain experience and responsibility as quickly as possible.

2. ITS Maintenance

a. A relationship exists between ITSs and the threat to Marine forces. Changes in the threat often trigger corresponding changes in our weapons, equipment, or doctrine, which then necessitate producing new or updated training standards. Such action requires a team effort on the part of the operating forces, the FLCs, and staff agencies at both Headquarters, U.S. Marine Corps and the Marine Corps Combat Development Command (MCCDC).

b. ITSs are ultimately validated by unit commanders and FLC directors. Records of Proceedings (ROP) resulting from Course Content Review Boards (CCRB) conducted by FLCs are particularly well suited for recommending revisions. The ROP should contain a justification for each proposed addition, deletion, or change and should accompany any request to obtain authority to depart from the currently published ITSs. Unit commanders can recommend changes through participation in a school's CCRB or directly via the chain of command. Unless significant changes warrant earlier action, ITS orders are revised and republished on a 4-year cycle.

c. ITS management is a dynamic process involving user maintenance as the key to refining standards to best serve unit missions. ITS users should evaluate whether ITSs support or fail to support an MOS, and ITS components should be examined for realism and pertinence. Users are encouraged to submit recommended changes to published ITSs through the chain of command.

SUMMARY/INDEX OF INDIVIDUAL TRAINING STANDARDS

1. General. This enclosure is a summary listing of all ITS tasks grouped by MOS and Duty Area.

2. Format. The columns are as follows:

a. SEQ. Sequence Number. This number dictates the order in which tasks for a given duty area are displayed.

b. TASK. ITS Designator. This is the permanent designator assigned to the task when it is created.

c. TITLE. ITS Task Title.

d. CORE. An "X" appears in this column when the task is designated as a "core" task required to "make" a Marine and qualify that Marine for the appropriate MOS. The absence of an "X" indicates that this is an advanced ("core plus") task that is mission, grade, or billet specific.

e. FLC. Functional Learning Center. An "X" appears in this column when the FLC is designated as the initial training setting. The absence of an "X" indicates that the initial training is accomplished through Managed On-The-Job Training (MOJT).

f. DL. Distance Learning Product. An "X" in this column indicates that at least one DL product is associated with this task. Consult enclosure (6) for details.

g. PST. Performance Support Tool. An "X" in this column indicates that at least one PST is associated with this task. Consult enclosure (6) for details.

h. SUS. Sustainment Training Period. An entry in this column represents the number of months between evaluation or retraining by the unit to maintain the proficiency required by the standard, provided the task supports the unit's METL.

i. REQ BY. Required By. An entry in this column depicts the lowest grade required to demonstrate proficiency in this task.

j. PAGE. Page Number. This column lists the number of the page in enclosure (6) that contains detailed information concerning this task.

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
		MOS 1302, ENGINEER OFFICER							
		DUTY AREA 01 - MOBILITY							
1)	1302.01.01	PERFORM MOBILITY ANALYSIS	X	X			6	2ndLt	6-A-1
2)	1302.01.02	ADVISE COMMANDER ON MOBILITY OPERATIONS	X	X			6	2ndLt	6-A-1
3)	1302.01.03	PLAN CONSTRUCTION OF A FORWARD OPERATING BASE (AIRFIELD/LANDING ZONE)		X			12	Capt	6-A-2
4)	1302.01.04	SUPERVISE CONSTRUCTION OF FORWARD OPERATING BASE (AIRFIELD/LANDING ZONE)					12	2ndLt	6-A-3

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
5)	1302.01.05	SUPERVISE REPAIR OF FORWARD OPERATING BASE (AIRFIELD/LANDING ZONE)					12	2ndLt	6-A-3
6)	1302.01.06	SUPERVISE RAPID RUNWAY REPAIR					12	2ndLt	6-A-4
7)	1302.01.07	PLAN ENGINEER ASPECTS OF RIVER CROSSING OPERATION	X	X			12	2ndLt	6-A-5
8)	1302.01.08	SUPERVISE ENGINEER ASPECTS OF RIVER CROSSING OPERATIONS					12	2ndLt	6-A-6
9)	1302.01.09	DESIGN A RIBBON BRIDGE/RAFT		X	X		12	2ndLt	6-A-7
10)	1302.01.10	DESIGN A MEDIUM GIRDER BRIDGE (MGB)		X	X		12	2ndLt	6-A-7
11)	1302.01.11	SUPERVISE CONSTRUCTION OF A MEDIUM GIRDER BRIDGE					12	2ndLt	6-A-8
12)	1302.01.12	CLASSIFY A BRIDGE		X	X		12	2ndLt	6-A-9
13)	1302.01.13	DESIGN A NONSTANDARD BRIDGE					12	Capt	6-A-9
14)	1302.01.14	SUPERVISE CONSTRUCTION OF A NONSTANDARD BRIDGE\					12	2ndLt	6-A-10
15)	1302.01.15	PLAN A PIONEER ROAD					12	2ndLt	6-A-11
16)	1302.01.16	SUPERVISE CONSTRUCTION OF A PIONEER ROAD					12	2ndLt	6-A-11
17)	1302.01.17	SUPERVISE REPAIR OF A PIONEER ROAD					12	2ndLt	6-A-12
18)	1302.01.18	DESIGN A MAIN SUPPLY ROUTE					12	Capt	6-A-13
19)	1302.01.19	SUPERVISE CONSTRUCTION OF A MAIN SUPPLY ROUTE					12	Capt	6-A-13
20)	1302.01.20	SUPERVISE REPAIR OF A MAIN SUPPLY ROUTE (MSR)					12	Capt	6-A-14
21)	1302.01.21	PLAN BREACHING OF COMPLEX OBSTACLE		X	X		6	2ndLt	6-A-15
22)	1302.01.22	SUPERVISE BREACHING A COMPLEX OBSTACLE					6	2ndLt	6-A-16
23)	1302.01.23	SUPERVISE CLEARING OF MINES AND BOOBY TRAPS					6	2ndLt	6-A-17
24)	1302.01.24	PLAN ROUTE SWEEP OPERATIONS		X	X		12	2ndLt	6-A-17
25)	1302.01.25	SUPERVISE ROUTE SWEEP OPERATIONS					12	2ndLt	6-A-18

DUTY AREA 02 - COUNTERMOBILITY

1)	1302.02.01	PERFORM COUNTERMOBILITY ANALYSIS	X	X			6	2ndLt	6-A-20
2)	1302.02.02	ADVISE COMMANDER ON COUNTERMOBILITY OPERATIONS	X	X			6	2ndLt	6-A-20
3)	1302.02.03	PREPARE A BARRIER PLAN					12	Capt	6-A-21
4)	1302.02.04	PREPARE AN OBSTACLE PLAN	X	X			12	2ndLt	6-A-22
5)	1302.02.05	SUPERVISE CONSTRUCTION OF AN OBSTACLE					12	2ndLt	6-A-23

DUTY AREA 03 - SURVIVABILITY

1)	1302.03.01	PERFORM SURVIVABILITY ANALYSIS	X	X			6	2ndLt	6-A-25
2)	1302.03.02	ADVISE COMMANDER ON SURVIVABILITY OPERATIONS	X	X			12	2ndLt	6-A-25
3)	1302.03.03	PREPARE A SURVIVABILITY PLAN	X	X			12	2ndLt	6-A-26
4)	1302.03.04	SUPERVISE CONSTRUCTION OF SURVIVABILITY POSITIONS					12	2ndLt	6-A-27

DUTY AREA 04 - GENERAL ENGINEERING

1)	1302.04.01	PERFORM GENERAL ENGINEERING ANALYSIS	X	X			12	2ndLt	6-A-28
2)	1302.04.02	ADVISE COMMANDER ON GENERAL ENGINEERING SUPPORT	X	X			12	2ndLt	6-A-29
3)	1302.04.03	PLAN CANTONMENT LAYOUT	X	X			12	2ndLt	6-A-29
4)	1302.04.04	MANAGE CONSTRUCTION PROJECTS					12	2ndLt	6-A-30

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
5)	1302.04.05	PLAN HORIZONTAL CONSTRUCTION OPERATION (ROAD)	X	X			12	2ndLt	6-A-31
6)	1302.04.06	PLAN HORIZONTAL CONSTRUCTION OPERATION (FORWARD OPERATING BASE/TACTICAL LANDING ZONE)	X	X			12	2ndLt	6-A-32
7)	1302.04.07	SUPERVISE HORIZONTAL CONSTRUCTION OPERATION					12	2ndLt	6-A-34
8)	1302.04.08	PLAN A VERTICAL CONSTRUCTION PROJECT	X	X			12	2ndLt	6-A-35
9)	1302.04.09	SUPERVISE VERTICAL CONSTRUCTION OPERATION					12	2ndLt	6-A-36
10)	1302.04.10	DESIGN CONCRETE MIX	X	X			12	2ndLt	6-A-36
11)	1302.04.11	DESIGN CONCRETE FORMS	X	X			12	2ndLt	6-A-37
12)	1302.04.12	DESIGN CONCRETE BLOCK CONSTRUCTION					12	2ndLt	6-A-37
13)	1302.04.13	SUPERVISE CONCRETE BLOCK CONSTRUCTION					12	2ndLt	6-A-38
14)	1302.04.14	DESIGN REINFORCED CONCRETE STRUCTURES	X	X			12	2ndLt	6-A-38
15)	1302.04.15	SUPERVISE CONSTRUCTION OF A REINFORCED CONCRETE STRUCTURE					12	2ndLt	6-A-39
16)	1302.04.16	DEVELOP FIELD WATER DISTRIBUTION SYSTEM	X	X			12	2ndLt	6-A-40
17)	1302.04.17	DEVELOP MOBILE ELECTRIC POWER DISTRIBUTION PLAN	X	X			12	2ndLt	6-A-40
18)	1302.04.18	PLAN FUEL OPERATIONS	X	X			12	2ndLt	6-A-41
		DUTY AREA 05 - TRAINING							
1)	1302.05.01	DEVELOP ENGINEER TRAINING PLAN			X		12	2ndLt	6-A-43
2)	1302.05.02	SUPERVISE UNIT TRAINING					12	2ndLt	6-A-43
		DUTY AREA 06 - MAINTENANCE							
1)	1302.06.01	MANAGE MAINTENANCE MANAGEMENT REPORTS AND RECORDS	X	X	X		6	2ndLt	6-A-45
2)	1302.06.02	MANAGE AN ORGANIZATIONAL MAINTENANCE PROGRAM	X	X	X		6	2ndLt	6-A-45
		DUTY AREA 07 - ENGINEER INTELLIGENCE							
1)	1302.07.01	PLAN ENGINEER RECONNAISSANCE MISSION	X	X			6	2ndLt	6-A-47
2)	1302.07.02	PERFORM ENGINEER RECONNAISSANCE MISSION	X	X			6	2ndLt	6-A-47
3)	1302.07.03	PERFORM TARGET ANALYSIS	X	X			12	2ndLt	6-A-48
		DUTY AREA 08 - STAFF FUNCTIONS							
1)	1302.08.01	CONDUCT ENGINEER PLANNING	X	X			12	2ndLt	6-A-50
2)	1302.08.02	PREPARE THE ENGINEER PORTIONS OF THE OPERATIONS ORDER	X	X			12	2ndLt	6-A-50
3)	1302.08.03	BRIEF COMMANDER ON ENGINEER SITUATION	X	X			12	2ndLt	6-A-51
		DUTY AREA 09 - DEMOLITIONS							
1)	1302.09.01	PLAN FOR DEMOLITION OPERATIONS	X	X			6	2ndLt	6-A-53
2)	1302.09.02	SUPERVISE DEMOLITION OPERATIONS					6	2ndLt	6-A-53
3)	1302.09.03	PREPARE A DEMOLITION TARGET FOLDER	X	X			12	2ndLt	6-A-54
4)	1302.09.04	DETONATE DEMOLITIONS	X	X			6	2ndLt	6-A-55

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
5)	1302.09.05	ENGAGE TARGETS WITH EXPEDIENT DEMOLITIONS				6	2ndLt		6-A-56

MOS 1310, ENGINEER EQUIPMENT OFFICER

DUTY AREA 01 - MIMMS

1)	1310.01.01	MANAGE MAINTENANCE ADMINISTRATION	X	X	X	12	WO		6-B-1
2)	1310.01.02	MANAGE TRAINING PROGRAM	X	X		12	WO		6-B-1
3)	1310.01.03	MANAGE RECORDS AND FORMS	X	X	X	12	WO		6-B-2
4)	1310.01.04	MANAGE PUBLICATIONS	X	X		12	WO		6-B-2
5)	1310.01.05	MANAGE ENGINEER EQUIPMENT AVAILABILITY				12	WO		6-B-3
6)	1310.01.06	MANAGE ENGINEER EQUIPMENT SECTION SUPPLY SUPPORT PROGRAM	X	X		12	WO		6-B-4
7)	1310.01.07	MANAGE SUPPORT AND TEST EQUIPMENT PROGRAM	X	X		6	WO		6-B-4
8)	1310.01.08	MANAGE PREVENTIVE MAINTENANCE PROGRAM	X	X		12	WO		6-B-5
9)	1310.01.09	MANAGE CORRECTIVE MAINTENANCE	X	X		12	WO		6-B-6
10)	1310.01.10	MANAGE MIMMS-AIS	X	X	X	12	WO		6-B-6
11)	1310.01.11	MANAGE MAINTENANCE RELATED PROGRAMS	X	X	X	12	WO		6-B-7

DUTY AREA 02 - ENGINEER EQUIPMENT MAINTENANCE SHOP OPERATIONS

1)	1310.02.01	SUPERVISE LOAD TESTING OF ENGINEER EQUIPMENT	X	X		12	WO		6-B-9
2)	1310.02.02	LAYOUT A MAINTENANCE SHOP	X	X		12	WO		6-B-9

DUTY AREA 03 - ENGINEER EQUIPMENT OPERATIONS

1)	1310.03.01	MANAGE ENGINEER EQUIPMENT LICENSING PROGRAM	X	X		12	WO		6-B-11
2)	1310.03.02	ESTIMATE HORIZONTAL CONSTRUCTION PROJECT PRODUCTION AND LOGISTICAL REQUIREMENTS	X	X		12	WO		6-B-11
3)	1310.03.03	MANAGE HORIZONTAL CONSTRUCTION	X	X		12	WO		6-B-12
4)	1310.03.04	MANAGE THE EMPLOYMENT OF ENGINEER EQUIPMENT	X	X		12	WO		6-B-12

DUTY AREA 04 - ENGINEER RELATED PROGRAMS

1)	1310.04.01	MANAGE SAFETY PROGRAMS	X	X		12	WO		6-B-14
2)	1310.04.02	MANAGE CORROSION PREVENTION AND CONTROL				12	WO		6-B-14

MOS 1316, METAL WORKER

DUTY AREA 01 - EQUIPMENT OPERATIONAL PROCEDURES

1)	1316.01.01	PERFORM OPERATIONS CHECKS ON WELDING/CUTTING EQUIPMENT	X	X	X	6	Pvt		6-C-1
2)	1316.01.02	CUT SHEET METAL WITH METAL SHEAR	X	X		12	Pvt		6-C-1
3)	1316.01.03	CUT METAL WITH PLASMA ARC EQUIPMENT	X	X		6	Pvt		6-C-2
4)	1316.01.04	FORGE METAL OBJECTS WITH OXYACETYLENE EQUIPMENT				12	Pvt		6-C-2

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
5)	1316.01.05	PERFORM METAL SURFACE HARDENING			X		6	Pvt	6-C-3
6)	1316.01.06	CONDUCT SAFETY INSPECTIONS	X	X	X		12	Pvt	6-C-4
		DUTY AREA 02 - OXYACETYLENE WELDING OPERATIONS							
1)	1316.02.01	WELD CAST IRON WITH OXYACETYLENE EQUIPMENT			X		6	Pvt	6-C-5
2)	1316.02.02	WELD CARBON STEEL WITH OXYACETYLENE EQUIPMENT	X	X			6	Pvt	6-C-5
3)	1316.02.03	WELD ALLOY STEEL WITH OXYACETYLENE EQUIPMENT					6	Pvt	6-C-6
4)	1316.02.04	WELD CAST STEEL WITH OXYACETYLENE EQUIPMENT			X		6	Pvt	6-C-6
5)	1316.02.05	CUT CARBON STEEL WITH OXYACETYLENE EQUIPMENT		X			12	Pvt	6-C-7
6)	1316.02.06	WELD SHEET METAL WITH OXYACETYLENE EQUIPMENT	X	X			6	Pvt	6-C-8
		DUTY AREA 03 - SHIELD METAL ARC WELDING OPERATIONS							
1)	1316.03.01	WELD CARBON STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-9
2)	1316.03.02	WELD CAST IRON WITH SHIELDED METAL ARC WELDING EQUIPMENT					6	Pvt	6-C-9
3)	1316.03.03	WELD ALLOY STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-10
4)	1316.03.04	WELD ALUMINUM WITH SHIELDED METAL ARC WELDING EQUIPMENT					6	Pvt	6-C-10
5)	1316.03.05	WELD STAINLESS STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT					6	Pvt	6-C-11
6)	1316.03.06	WELD CAST STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT					6	Pvt	6-C-12
7)	1316.03.07	WELD ARMOR PLATE WITH SHIELDED METAL ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-12
8)	1316.03.08	WELD PIPE WITH ARC WELDING EQUIPMENT					12	Pvt	6-C-13
		DUTY AREA 04 - GAS METAL ARC WELDING OPERATIONS							
1)	1316.04.01	WELD CARBON STEEL WITH GAS METAL ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-14
2)	1316.04.02	WELD ALLOY STEEL WITH GAS METAL ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-14
3)	1316.04.03	WELD ALUMINUM WITH GAS METAL ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-15
4)	1316.04.04	WELD STAINLESS STEEL WITH GAS METAL ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-15
5)	1316.04.05	WELD CAST STEEL WITH GAS METAL ARC WELDING EQUIPMENT					6	Pvt	6-C-16
6)	1316.04.06	WELD ARMOR PLATE WITH GAS METAL ARC WELDING EQUIPMENT					6	Pvt	6-C-17
		DUTY AREA 05 - GAS TUNGSTEN ARC WELDING OPERATIONS							
1)	1316.05.01	WELD CARBON STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT					6	Pvt	6-C-18

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
2)	1316.05.02	WELD CAST IRON WITH GAS TUNGSTEN ARC WELDING EQUIPMENT					6	Pvt	6-C-18
3)	1316.05.03	WELD ALLOY STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-19
4)	1316.05.04	WELD ALUMINUM WITH GAS TUNGSTEN ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-19
5)	1316.05.05	WELD STAINLESS STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT	X	X			6	Pvt	6-C-20
6)	1316.05.06	WELD CAST STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT					6	Pvt	6-C-21
7)	1316.05.07	WELD TITANIUM WITH GAS TUNGSTEN ARC WELDING EQUIPMENT	X	X			12	Pvt	6-C-21
		DUTY AREA 06 - WELDING SHOP OPERATIONS							
1)	1316.06.01	FABRICATE SPECIAL TOOLS AND METAL OBJECTS	X	X			12	Pvt	6-C-23
2)	1316.06.02	PERFORM FOREHAND/BACKHAND WELDING	X	X	X		12	Pvt	6-C-23
3)	1316.06.03	PERFORM IDENTIFICATION TESTS ON METAL	X	X	X		12	Pvt	6-C-24
4)	1316.06.04	PERFORM INTERMITTENT BACKSTEP WELDING	X	X			12	Pvt	6-C-24
5)	1316.06.05	PERFORM SHEET METAL OPERATIONS					6	Pvt	6-C-25
6)	1316.06.06	PERFORM CORROSION PREVENTION AND CONTROL					12	Cpl	6-C-25
7)	1316.06.07	CONSTRUCT SHEET METAL OBJECTS					6	Pvt	6-C-26
8)	1316.06.08	REPAIR SHEET METAL OBJECTS			X		6	Pvt	6-C-27
		DUTY AREA 07 - RADIATOR/FUEL TANKS							
1)	1316.07.01	REPAIR RADIATORS/FUEL TANKS					12	Pvt	6-C-28
		DUTY AREA 08 - WELDING EQUIPMENT RECORDS							
1)	1316.08.01	COMPLETE CONSOLIDATED ENGINEER EQUIPMENT OPERATOR LOG AND SERVICE RECORD (NAVMC 10524)	X	X			6	Cpl	6-C-29
2)	1316.08.02	COMPLETE EQUIPMENT REPAIR ORDER AND EQUIPMENT REPAIR ORDER SHOPPING LIST	X	X			12	Pvt	6-C-29
		DUTY AREA 09 - WELDING SHOP OPERATIONS							
1)	1316.09.01	SUPERVISE WELDING OPERATIONS	X	X			12	SSgt	6-C-31
2)	1316.09.02	SUPERVISE WELDING SHOP INVENTORY	X	X			6	Cpl	6-C-31
3)	1316.09.03	SUPERVISE WELDING SHOP PREVENTIVE MAINTENANCE PROGRAM	X	X			12	SSgt	6-C-32
4)	1316.09.04	MAINTAIN ENGINEER EQUIPMENT RECORDS AND FORMS	X	X			6	SSgt	6-C-32
5)	1316.09.05	REVIEW DAILY PROCESS REPORT (DPR)	X	X			12	SSgt	6-C-33
		DUTY AREA 10 - GENERAL							
1)	1316.10.01	CAMOUFLAGE POSITIONS, VEHICLES, OR EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM	X	X			12	SSgt	6-C-34
2)	1316.10.02	CONDUCT INVENTORY OF TOOLS SETS, CHESTS, AND KITS	X	X			12	Pvt	6-C-34

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
		MOS 1330, FACILITIES MANAGEMENT OFFICER							
		DUTY AREA 01 - PROGRAMS, PROJECTS, AND OPERATIONS							
1)	1330.01.01	CHECK HORIZONTAL AND VERTICAL CONSTRUCTION DESIGNS	X	X			6	2ndLt	6-D-1
2)	1330.01.02	CHECK HORIZONTAL AND VERTICAL CONSTRUCTION ESTIMATES	X	X			6	2ndLt	6-D-1
3)	1330.01.03	INSPECT CONSTRUCTION PROJECT JOB SITE	X	X			12	2ndLt	6-D-1
4)	1330.01.04	MANAGE NATURAL RESOURCES POLICIES AND PROCEDURES	X	X			12	2ndLt	6-D-2
5)	1330.01.05	ADJUST FACILITIES UTILIZATION REQUIREMENTS					12	2ndLt	6-D-3
6)	1330.01.06	ANALYZE BACK-ORDER MAINTENANCE AND REPAIR (BMAR) TO DETERMINE DISCREPANCIES					12	2ndLt	6-D-3
7)	1330.01.07	APPROVE MAINTENANCE JOB ORDERS/WORK REQUESTS					12	2ndLt	6-D-4
8)	1330.01.08	CERTIFY FUNDING OF UTILITY BILLS					12	2ndLt	6-D-4
9)	1330.01.09	COORDINATE BEQ/BOQ TEMPORARY HOUSING EFFORTS					12	2ndLt	6-D-5
10)	1330.01.10	DEVELOP FACILITIES MAINTENANCE INDUSTRIAL HYGIENE PROGRAM					12	2ndLt	6-D-5
11)	1330.01.11	DEVELOP FACILITIES CONSTRUCTION TIME PHASING PLAN					12	2ndLt	6-D-6
12)	1330.01.12	DEVELOP MAJOR FACILITIES REPAIR PROJECTS PROGRAM					12	2ndLt	6-D-7
13)	1330.01.13	ESTABLISH AN ENCROACHMENT CONTROL PROGRAM					12	2ndLt	6-D-7
14)	1330.01.14	ESTABLISH ENERGY CONSERVATION PROGRAM					12	2ndLt	6-D-8
15)	1330.01.15	ESTABLISH LOCAL FACILITIES MAINTENANCE SELF-HELP POLICIES AND PROCEDURES					12	2ndLt	6-D-8
16)	1330.01.16	EVALUATE FACILITIES UTILIZATION POLICIES					12	2ndLt	6-D-9
17)	1330.01.17	PERFORM A FACILITIES ACCEPTANCE INSPECTION					12	2ndLt	6-D-10
18)	1330.01.18	PREPARE BUDGET ESTIMATES FOR FACILITIES MAINTENANCE TASKS, REPAIR TASKS, AND FACILITIES OPERATION					12	2ndLt	6-D-10
19)	1330.01.19	RECONCILE FACILITIES SUPPORT REQUIREMENT (FSR) OCCUPANCY NUMBERS WITH FAMILY HOUSING SURVEY OCCUPANCY NUMBERS					12	2ndLt	6-D-11
20)	1330.01.20	REVIEW THE BACHELOR HOUSING REPORT					12	2ndLt	6-D-11
21)	1330.01.21	SUPERVISE PERSONNEL PERFORMING FACILITIES MAINTENANCE, REPAIR, OR MINOR CONSTRUCTION DUTIES					12	2ndLt	6-D-12
22)	1330.01.22	TRANSLATE FACILITIES SUPPORT REQUIREMENT (FSR) INTO BASIC FACILITIES REQUIREMENT LIST (BFRL)					12	2ndLt	6-D-12
23)	1330.01.23	RECOMMEND BASIC FACILITIES REQUIREMENT LIST (BFRL) CHANGES					12	2ndLt	6-D-13
24)	1330.01.24	RECOMMEND A FACILITIES DESIGN CHANGE					12	2ndLt	6-D-13
25)	1330.01.25	RECOMMEND FACILITIES MANAGEMENT PROCEDURE CHANGES					12	2ndLt	6-D-14
26)	1330.01.26	RECOMMEND MINOR CONSTRUCTION PROJECT PRIORITIES					12	2ndLt	6-D-15
27)	1330.01.27	ANALYZE AN ENVIRONMENTAL IMPACT ISSUE					12	2ndLt	6-D-15

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
28)	1330.01.28	ANALYZE FAMILY HOUSING INCIDENTS FOR FACILITIES ACTION					12	2ndLt	6-D-16
29)	1330.01.29	CONDUCT FACILITIES ALLOCATION STUDY					12	2ndLt	6-D-16
30)	1330.01.30	RECOMMEND NEW BUILDING SITE LOCATION					12	2ndLt	6-D-17
31)	1330.01.31	MANAGE HAZARDOUS WASTE CLEANUP AND DISPOSAL PROGRAM					12	2ndLt	6-D-17
32)	1330.01.32	VERIFY MAINTAINABILITY OF FACILITIES DESIGNS					12	2ndLt	6-D-18

MOS 1341, ENGINEER EQUIPMENT MECHANIC

DUTY AREA 01 - NON-EQUIPMENT OPERATIONAL PROCEDURES

1)	1341.01.01	COMPLETE EQUIPMENT REPAIR ORDER (ERO) AND EQUIPMENT REPAIR ORDER SHOPPING LIST (EROSL)			X		12	Pvt	6-E-1
2)	1341.01.02	COMPLETE THE WORKSHEET FOR PREVENTIVE MAINTENANCE AND TECHNICAL INSPECTION FOR ENGINEER EQUIPMENT (NAVMC 10560)					12	Pvt	6-E-1
3)	1341.01.03	MAINTAIN ERO LAYETTES	X	X			12	Cpl	6-E-2
4)	1341.01.04	MAINTAIN PRE-EXPENDED BINS	X	X			12	Cpl	6-E-2
5)	1341.01.05	COMPLETE CALIBRATION CONTROL RECORD	X	X			12	Cpl	6-E-3
6)	1341.01.06	CAMOUFLAGE POSITIONS, VEHICLES, OR EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM	X	X			12	Pvt	6-E-3
7)	1341.01.07	CONDUCT INVENTORY OF TOOLS SETS, CHESTS, AND KITS	X	X			12	Pvt	6-E-4

DUTY AREA 02 - PREVENTIVE MAINTENANCE

1)	1341.02.01	PERFORM PREVENTIVE MAINTENANCE	X	X			12	Pvt	6-E-5
2)	1341.02.02	USE TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT	X	X			12	Pvt	6-E-5

DUTY AREA 03 - CORRECTIVE MAINTENANCE

1)	1341.03.01	PERFORM CORRECTIVE MAINTENANCE ON ENGINEER EQUIPMENT	X	X			12	Pvt	6-E-7
2)	1341.03.02	REPAIR EQUIPMENT INTAKE EXHAUST SYSTEM	X	X			6	Pvt	6-E-7
3)	1341.03.03	REPAIR AIR COMPRESSOR SYSTEM	X	X			6	Pvt	6-E-8
4)	1341.03.04	REPAIR EQUIPMENT BRAKE SYSTEM	X	X			6	Pvt	6-E-8
5)	1341.03.05	REPAIR EQUIPMENT COOLANT SYSTEM	X	X			6	Pvt	6-E-9
6)	1341.03.06	REPAIR EQUIPMENT ELECTRICAL SYSTEM	X	X			6	Pvt	6-E-9
7)	1341.03.07	REPAIR EQUIPMENT ENGINE ASSEMBLY	X	X			6	Pvt	6-E-10
8)	1341.03.08	REPAIR EQUIPMENT HYDRAULIC SYSTEM	X	X			6	Pvt	6-E-11
9)	1341.03.09	REPAIR EQUIPMENT FUEL SYSTEM	X	X			6	Pvt	6-E-11
10)	1341.03.10	REPAIR CHAIN SAW					12	Cpl	6-E-12
11)	1341.03.11	OVERHAUL DIESEL ENGINES	X	X			6	Cpl	6-E-12
12)	1341.03.12	PERFORM EQUIPMENT LIMITED TECHNICAL INSPECTION (LTI)	X	X			12	Pvt	6-E-13
13)	1341.03.13	ADJUST EQUIPMENT POWER TRAIN COMPONENTS	X	X			12	Pvt	6-E-14
14)	1341.03.14	REPAIR ENGINEER EQUIPMENT ATTACHMENTS	X	X			12	Cpl	6-E-14
15)	1341.03.15	REPAIR POWER TRAIN SYSTEM	X	X			6	Cpl	6-E-15

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 04 - EQUIPMENT OPERATIONAL PROCEDURES									
1)	1341.04.01	PERFORM EQUIPMENT OPERATIONAL PROCEDURES					12	Pvt	6-E-16
2)	1341.04.02	REPLACE CUTTING EDGE/TEETH ON ENGINEER EQUIPMENT					12	Pvt	6-E-16
DUTY AREA 05 - RECORDS									
1)	1341.05.01	COMPLETE COMMODITY MANAGER'S MODIFICATION CONTROL RECORD					12	Cpl	6-E-17
2)	1341.05.02	PREPARE ESTIMATE COST REPAIR WORKSHEET	X	X			3	SSgt	6-E-17
DUTY AREA 06 - PROGRAMS									
1)	1341.06.01	MAINTAIN PUBLICATIONS	X	X			12	SSgt	6-E-19
2)	1341.06.02	REVIEW DAILY PROCESS REPORT (DPR)	X	X			12	SSgt	6-E-19
MOS 1342, SMALL CRAFT MECHANIC									
DUTY AREA 01 - PREVENTIVE MAINTENANCE									
1)	1342.01.01	PERFORM SMALL CRAFT SCHEDULED PREVENTIVE MAINTENANCE	X	X			12	Pvt	6-F-1
2)	1342.01.02	OPERATE TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE) FOR SMALL CRAFT	X	X			12	Pvt	6-F-1
DUTY AREA 02 - CORRECTIVE MAINTENANCE									
1)	1342.02.01	PERFORM CORRECTIVE MAINTENANCE ON SMALL CRAFT	X	X			12	Pvt	6-F-3
2)	1342.02.02	CONDUCT LIMITED TECHNICAL INSPECTION (LTI) ON SMALL CRAFT	X	X			12	Pvt	6-F-3
3)	1342.02.03	CONDUCT LIMITED TECHNICAL INSPECTION (LTI) ON SMALL CRAFT TRAILERS	X	X			12	Pvt	6-F-4
4)	1342.02.04	CONDUCT LIMITED TECHNICAL INSPECTION (LTI) OF SMALL CRAFT OUTBOARD ENGINES	X	X			12	Pvt	6-F-4
5)	1342.02.05	REPAIR PROPULSION SYSTEM	X	X			12	Pvt	6-F-4
6)	1342.02.06	REPAIR SMALL CRAFT ELECTRICAL SYSTEM	X	X			12	Pvt	6-F-5
7)	1342.02.07	REPAIR SMALL CRAFT COOLING SYSTEM	X	X			12	Pvt	6-F-6
8)	1342.02.08	REPAIR SMALL CRAFT FUEL SYSTEM	X	X			12	Pvt	6-F-7
9)	1342.02.09	REPAIR SMALL CRAFT AIR INTAKE/EXHAUST SYSTEM	X	X			12	Pvt	6-F-8
10)	1342.02.10	REPAIR SMALL CRAFT STEERING SYSTEM	X	X			12	Pvt	6-F-8
11)	1342.02.11	REPAIR SMALL CRAFT TRAILER	X	X			12	Pvt	6-F-9
12)	1342.02.12	REPAIR CRANKING SYSTEM ON OUTBOARD ENGINE	X	X			12	Pvt	6-F-10
13)	1342.02.13	REPAIR CAPACITOR DISCHARGE (CD II) IGNITIONS SYSTEM	X	X			12	Pvt	6-F-10
14)	1342.02.14	REPAIR CHARGING SYSTEM ON OUTBOARD ENGINE	X	X			12	Pvt	6-F-11
15)	1342.02.15	REPAIR FUEL SYSTEM ON OUTBOARD ENGINE	X	X			12	Pvt	6-F-11
16)	1342.02.16	REPAIR COOLING SYSTEM OF OUTBOARD ENGINE	X	X			12	Pvt	6-F-12
17)	1342.02.17	REPAIR POWERHEAD ON OUTBOARD ENGINE	X	X			12	Pvt	6-F-13
18)	1342.02.18	REPAIR GEARCASE ON OUTBOARD ENGINE	X	X			12	Pvt	6-F-13

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
19)	1342.02.19	REPAIR TRIM/TILT UNIT	X	X			12	Pvt	6-F-14
20)	1342.02.20	REPAIR HULL OF RIGID RAIDING CRAFT (RRC)	X	X			12	Pvt	6-F-14
21)	1342.02.21	REPAIR COMBAT RUBBER RAIDING CRAFT (CRRC)	X	X			12	Pvt	6-F-15

DUTY AREA 03 - SMALL CRAFT OPERATIONAL PROCEDURES

1)	1342.03.01	INSTALL OUTBOARD MOTOR(S) ON SMALL CRAFT	X	X			12	Pvt	6-F-17

MOS 1345, ENGINEER EQUIPMENT OPERATOR

DUTY AREA 01 - EQUIPMENT SET-UP

1)	1345.01.01	INSTALL/REMOVE TRACTOR, RUBBER-TIRED, ARTICULATED STEERING, MULTIPURPOSE 644E (TRAM) ATTACHMENTS	X	X			12	Pvt	6-G-1
2)	1345.01.02	ASSIST IN THE INSTALLATION /REMOVAL OF D7G TRACTOR ATTACHMENTS	X	X			12	Cpl	6-G-1
3)	1345.01.03	INSTALL/REMOVE HIGH SPEED HIGH MOBILITY CRANE ATTACHMENTS	X	X			12	Cpl	6-G-2
4)	1345.01.04	INSTALL/REMOVE 1085 EXCAVATOR ATTACHMENTS	X	X			12	LCpl	6-G-2
5)	1345.01.05	INSTALL/REMOVE 420C VIBRATORY COMPACTOR DRUM	X	X			12	LCpl	6-G-3
6)	1345.01.06	INSTALL/REMOVE EXTENDED BOOM FORK LIFT (EBFL) ATTACHMENTS	X	X			12	Pvt	6-G-3
7)	1345.01.07	INSTALL/REMOVE DTC 8606 FORK LIFT ATTACHMENTS	X	X			12	Pvt	6-G-4
8)	1345.01.08	ASSIST WITH EQUIPMENT SCHEDULED PREVENTIVE MAINTENANCE	X	X			12	Pvt	6-G-4
9)	1345.01.09	CONDUCT SAFETY INSPECTIONS	X	X			12	LCpl	6-G-4

DUTY AREA 02 - EQUIPMENT OPERATIONAL PROCEDURES

1)	1345.02.01	OPERATE 130G GRADER IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Pvt	6-G-6
2)	1345.02.02	OPERATE 621B SCRAPER IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	PFC	6-G-6
3)	1345.02.03	OPERATE MC1150E TRACTOR IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Pvt	6-G-7
4)	1345.02.04	OPERATE D7G TRACTOR IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Pvt	6-G-8
5)	1345.02.05	OPERATE HIGH SPEED HIGH MOBILITY CRANE IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Cpl	6-G-9
6)	1345.02.06	OPERATE LRT-110 CRANE IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Cpl	6-G-10
7)	1345.02.07	OPERATE RUNWAY SWEEPER IN SUPPORT OF ENGINEER OPERATIONS					12	Pvt	6-G-11
8)	1345.02.08	OPERATE DTC 8606 FORKLIFT IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Pvt	6-G-11
9)	1345.02.09	OPERATE EXTENDED BOOM FORKLIFT (EBFL) IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Pvt	6-G-12
10)	1345.02.10	OPERATE 1085 EXCAVATOR IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Pvt	6-G-13

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
11)	1345.02.11	OPERATE ROUGH TERRAIN CONTAINER HANDLER (RTCH) IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	LCpl	6-G-14
12)	1345.02.12	OPERATE 420C VIBRATORY COMPACTOR IN SUPPORT OF ENGINEER OPERATIONS					3	Pvt	6-G-14
13)	1345.02.13	OPERATE TRACTOR, RUBBER-TIRED, ARTICULATED STEERING, MULTIPURPOSE 644E (TRAM) IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Pvt	6-G-15
14)	1345.02.14	OPERATE MC1155 TRACTOR IN SUPPORT OF ENGINEER OPERATIONS					12	Cpl	6-G-16
15)	1345.02.15	OPERATE TRUCK, SMALL EMPLACEMENT EQUIPMENT (SEE) IN SUPPORT OF ENGINEER OPERATIONS	X	X			12	Pvt	6-G-17
16)	1345.02.16	OPERATE M9 ACE TRACTOR IN SUPPORT OF ENGINEER OPERATIONS					12	Cpl	6-G-18
		DUTY AREA 03 - NON-OPERATIONAL PROCEDURES							
1)	1345.03.01	PERFORM CORROSION PREVENTION AND CONTROL					12	Pvt	6-G-20
2)	1345.03.02	CAMOUFLAGE POSITIONS, VEHICLES, OR EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM	X	X			12	Pvt	6-G-20
3)	1345.03.03	CONDUCT INVENTORY OF TOOL SETS, CHESTS, AND KITS					12	Pvt	6-G-21
		DUTY AREA 04 - PREVENTIVE MAINTENANCE							
1)	1345.04.01	PERFORM EQUIPMENT OPERATOR PREVENTIVE MAINTENANCE	X	X			12	Pvt	6-G-22
2)	1345.04.02	ASSIST IN PERFORMING ENGINEER EQUIPMENT LIMITED TECHNICAL INSPECTION (LTI)					12	Pvt	6-G-22
3)	1345.04.03	LOAD TEST CRANES AND AERIAL PERSONNEL DEVICES	X	X			12	Cpl	6-G-23
		DUTY AREA 05 - CORRECTIVE MAINTENANCE							
1)	1345.05.01	ASSIST IN REPLACING CUTTING EDGES/TEETH ON APPLICABLE ENGINEER EQUIPMENT					12	Pvt	6-G-24
		DUTY AREA 06 - RECORDS, DOCUMENTS, AND PUBLICATIONS							
1)	1345.06.01	PREPARE/MAINTAIN ENGINEER EQUIPMENT OPERATOR RECORDS /FORMS	X	X	X		12	Cpl	6-G-25
2)	1345.06.02	PREPARE QUALITY DEFICIENCY REPORT (QDR)(SF 368)	X	X			12	Cpl	6-G-25
3)	1345.06.03	MAINTAIN ENGINEER LICENSING PROGRAM	X	X			12	Cpl	6-G-26
4)	1345.06.04	PREPARE MOTOR VEHICLE ACCIDENT REPORT (SF 91)	X	X			12	Pvt	6-G-26
5)	1345.06.05	EMPLOY ENGINEER EQUIPMENT ASSETS	X	X			12	SSgt	6-G-27
6)	1345.06.06	PERFORM EQUIPMENT RECOVERY	X	X			12	SSgt	6-G-27

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
		MOS 1349, ENGINEER EQUIPMENT CHIEF							
		DUTY AREA 01 - NON-EQUIPMENT OPERATIONAL PROCEDURES							
1)	1349.01.01	SUPERVISE MAINTENANCE ADMINISTRATION	X	X	X		12	GySgt	6-H-1
2)	1349.01.02	SUPERVISE ENGINEER EQUIPMENT MOS TRAINING PROGRAM	X	X	X		12	GySgt	6-H-1
3)	1349.01.03	SUPERVISE MAINTENANCE OF ENGINEER EQUIPMENT RECORDS /FORMS	X	X	X		12	GySgt	6-H-2
4)	1349.01.04	SUPERVISE PUBLICATIONS PROGRAM	X	X			12	GySgt	6-H-2
5)	1349.01.05	SUPERVISE ENGINEER EQUIPMENT AVAILABILITY					12	GySgt	6-H-3
6)	1349.01.06	SUPERVISE ENGINEER EQUIPMENT SECTION SUPPLY SUPPORT PROGRAM	X	X			12	GySgt	6-H-4
7)	1349.01.07	SUPERVISE SUPPORT AND TEST EQUIPMENT PROGRAM	X	X			12	GySgt	6-H-4
8)	1349.01.08	SUPERVISE PREVENTIVE MAINTENANCE (PM) PROGRAM	X	X			12	GySgt	6-H-5
9)	1349.01.09	SUPERVISE CORRECTIVE MAINTENANCE (CM) PROGRAM	X	X			12	GySgt	6-H-5
10)	1349.01.10	VALIDATE MAINTENANCE-RELATED REPORTS	X	X			12	GySgt	6-H-6
11)	1349.01.11	SUPERVISE MAINTENANCE-RELATED PROGRAMS	X	X			12	GySgt	6-H-7
		DUTY AREA 02 - RECORDS, DOCUMENTS, AND PUBLICATIONS							
1)	1349.02.01	LOAD TEST ENGINEER EQUIPMENT	X	X			12	GySgt	6-H-9
		DUTY AREA 03 - PROGRAMS							
1)	1349.03.01	SUPERVISE ENGINEER EQUIPMENT LICENSING PROGRAM	X	X			12	GySgt	6-H-10
2)	1349.03.02	SUPERVISE EQUIPMENT RECOVERY OPERATIONS					12	GySgt	6-H-10
3)	1349.03.03	ESTIMATE HORIZONTAL CONSTRUCTION PROJECT PRODUCTION AND LOGISTICAL REQUIREMENTS	X	X			12	GySgt	6-H-11
4)	1349.03.04	SUPERVISE HORIZONTAL CONSTRUCTION	X	X			12	GySgt	6-H-11
5)	1349.03.05	SUPERVISE ENGINEER EQUIPMENT OPERATIONS	X	X			12	GySgt	6-H-12
		MOS 1361, ENGINEER ASSISTANT							
		DUTY AREA 01 - CONSTRUCTION DRAFTING							
1)	1361.01.01	PERFORM BASIC DRAFTING TECHNIQUES	X	X	X		3	Pvt	6-I-1
2)	1361.01.02	CREATE COMPUTER-AIDED MULTI-VIEW DRAWINGS	X	X	X		3	Pvt	6-I-1
3)	1361.01.03	CREATE COMPUTER-AIDED ARCHITECTURAL DRAWINGS	X	X	X		3	Pvt	6-I-2
4)	1361.01.04	CREATE COMPUTER-AIDED CIVIL DRAWINGS	X	X	X		3	Pvt	6-I-3
		DUTY AREA 02 - CONSTRUCTION SURVEYS							
1)	1361.02.01	ESTABLISH A CONTROL TRAVERSE	X	X			3	Pvt	6-I-5
2)	1361.02.02	CONDUCT A RADIAL SURVEY	X	X			3	Pvt	6-I-5
3)	1361.02.03	ADJUST COLLECTED FIELD DATA	X	X			3	Pvt	6-I-6
4)	1361.02.04	LAYOUT A PROJECT	X	X			3	Pvt	6-I-7

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 03 - PROJECT PLANNING									
1)	1361.03.01	DESIGN A HORIZONTAL CONSTRUCTION PROJECT	X	X			6	Sgt	6-I-8
2)	1361.03.02	DESIGN A VERTICAL CONSTRUCTION PROJECT	X	X			6	Sgt	6-I-9
3)	1361.03.03	UTILIZE AUTOMATED FACILITIES PROGRAMS	X	X			3	Cpl	6-I-9
4)	1361.03.04	COMPUTE A PROJECT BILL OF MATERIALS	X	X			3	Cpl	6-I-10
5)	1361.03.05	IMPLEMENT PROJECT PLANNING METHODS	X	X			3	SSgt	6-I-11
DUTY AREA 04 - MAINTENANCE ADMINISTRATION									
1)	1361.04.01	MAINTAIN MIMMS PROGRAM			X		3	SSgt	6-I-13
2)	1361.04.02	ANALYZE MAINTENANCE MANAGEMENT RECORDS			X		3	SSgt	6-I-13
DUTY AREA 05 - SUPERVISORY FUNCTIONS									
1)	1361.05.01	SUPERVISE MOS TRAINING PROGRAM					6	GySgt	6-I-15
2)	1361.05.02	SUPERVISE MAINTENANCE ADMINISTRATION			X		6	GySgt	6-I-15
3)	1361.05.03	SUPERVISE EQUIPMENT RECORDS					6	GySgt	6-I-16
4)	1361.05.04	SUPERVISE PUBLICATIONS RESOURCES					3	SSgt	6-I-16

MOS 1371, COMBAT ENGINEER

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 01 - GENERAL ENGINEERING									
1)	1371.01.01	CUT LUMBER TO DIMENSION	X	X			6	PFC	6-J-1
2)	1371.01.02	PLACE LUMBER	X	X			12	PFC	6-J-1
3)	1371.01.03	DESIGN WOOD FRAME STRUCTURE		X			6	SSgt	6-J-2
4)	1371.01.04	LAYOUT WOOD FRAME STRUCTURES		X			6	Cpl	6-J-2
5)	1371.01.05	MIX CONCRETE	X	X			6	PFC	6-J-3
6)	1371.01.06	DETERMINE REQUIRED CONCRETE MIXTURE					12	SSgt	6-J-3
7)	1371.01.07	POUR CONCRETE	X	X			12	PFC	6-J-4
8)	1371.01.08	FINISH CONCRETE	X	X			12	PFC	6-J-5
9)	1371.01.09	CONSTRUCT CONCRETE BLOCK STRUCTURES	X	X			6	PFC	6-J-5
10)	1371.01.10	DESIGN CONCRETE FORMS					6	Cpl	6-J-6
11)	1371.01.11	CONSTRUCT CONCRETE FORM	X	X			6	Pvt	6-J-6
12)	1371.01.12	DESIGN CONCRETE STRUCTURES	X	X			6	GySgt	6-J-7
13)	1371.01.13	DROP STANDING TIMBER	X	X			6	PFC	6-J-7
14)	1371.01.14	CUT TIMBER TO SIZE	X	X			12	PFC	6-J-8
15)	1371.01.15	PLACE TIMBER	X	X			6	PFC	6-J-8
16)	1371.01.16	EMPLOY CONSTRUCTION SHOP COMPONENTS SET					6	Sgt	6-J-9
17)	1371.01.17	ESTIMATE REQUIREMENTS FOR ENGINEER OPERATIONS					6	SSgt	6-J-9
18)	1371.01.18	PLAN A BASE CAMP					12	GySgt	6-J-10
19)	1371.01.19	REQUISITION REQUIRED MATERIALS					12	Cpl	6-J-11
20)	1371.01.20	ESTABLISH PROJECT /OPERATION SCHEDULES					6	GySgt	6-J-11
DUTY AREA 02 - MOBILITY									
1)	1371.02.01	INSTALL A MEDIUM GIRDER BRIDGE					12	Sgt	6-J-12
2)	1371.02.02	MANEUVER A STANDARD MILITARY RAFT					12	Sgt	6-J-12
3)	1371.02.03	INSTALL RIBBON BRIDGE					6	Sgt	6-J-13
4)	1371.02.04	ASSEMBLE RIBBON BRIDGE RAFT		X			12	Sgt	6-J-14
5)	1371.02.05	OPERATE BRIDGE ERECTION BOAT		X			12	Cpl	6-J-14

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
6)	1371.02.06	DETERMINE RAFT SIZE REQUIRED FOR WET GAP CROSSING		X			12	SSgt	6-J-15
7)	1371.02.07	SELECT BRIDGING SITES		X			12	GySgt	6-J-15
8)	1371.02.08	DETERMINE BRIDGE ASSETS REQUIRED TO SPAN A GAP		X			12	GySgt	6-J-16
9)	1371.02.09	DESIGN A NONSTANDARD BRIDGE		X			6	GySgt	6-J-17
10)	1371.02.10	CONDUCT ROUTE RECONNAISSANCE		X	X		12	Cpl	6-J-18
11)	1371.02.11	CONDUCT ENGINEER RECONNAISSANCE PATROL			X		12	Cpl	6-J-19
12)	1371.02.12	CLASSIFY BRIDGES		X			12	SSgt	6-J-20
13)	1371.02.13	CONSTRUCT TACTICAL LANDING ZONE (TLZ)					6	Cpl	6-J-21
14)	1371.02.14	REPAIR DAMAGED AIRFIELDS					6	Sgt	6-J-21
15)	1371.02.15	ASSEMBLE PREFABRICATED STRUCTURES					12	PFC	6-J-22
16)	1371.02.16	CONDUCT DEMOLITION RECONNAISSANCE	X	X	X		12	Cpl	6-J-23
17)	1371.02.17	BREACH FOREIGN MINEFIELDS	X	X	X		3	PFC	6-J-23
18)	1371.02.18	EMPLOY M58/M68 LINEAR DEMOLITION CHARGE	X	X			3	Cpl	6-J-25
19)	1371.02.19	DESTROY NONEXPLOSIVE OBSTACLES	X	X	X		3	Pvt	6-J-26
20)	1371.02.20	CONDUCT OBSTACLE BREACHING OPERATIONS	X	X	X		6	Sgt	6-J-27
21)	1371.02.21	ENGAGE TARGETS WITH EXPEDIENT DEMOLITIONS		X			3	Cpl	6-J-28
22)	1371.02.22	PERFORM DEMOLITIONS UTILIZING SPECIALIZED EXPLOSIVES	X	X			3	Sgt	6-J-29
23)	1371.02.23	EMPLOY A BALLISTIC DISK					12	Sgt	6-J-30
24)	1371.02.24	CONDUCT FIELD IDENTIFICATION OF SOIL		X			6	Cpl	6-J-31
25)	1371.02.25	DESIGN EXPEDIENT DRAIN STRUCTURES		X			6	Sgt	6-J-32
26)	1371.02.26	CONSTRUCT EXPEDIENT DRAINAGE STRUCTURES					6	Cpl	6-J-32
27)	1371.02.27	CLASSIFY ROADS		X			12	SSgt	6-J-33
28)	1371.02.28	ASSIST IN ERECTING A MEDIUM GIRDER BRIDGE (MGB)	X	X			12	Pvt	6-J-34
29)	1371.02.29	ASSIST IN RETRIEVING A MEDIUM GIRDER BRIDGE (MGB)	X	X			12	Pvt	6-J-34

DUTY AREA 03 - COUNTERMOBILITY

1)	1371.03.01	CONSTRUCT WIRE OBSTACLES	X	X			6	PFC	6-J-36
2)	1371.03.02	CONSTRUCT ABATIS	X	X			6	PFC	6-J-36
3)	1371.03.03	CONSTRUCT LOG OBSTACLES	X	X			6	PFC	6-J-37
4)	1371.03.04	RECOMMEND OBSTACLE PLACEMENT		X			12	Cpl	6-J-38
5)	1371.03.05	CREATE CRATERS AND DITCHES USING EXPLOSIVES					6	PFC	6-J-38
6)	1371.03.06	CONSTRUCT BOOBY TRAPS		X			6	Cpl	6-J-39
7)	1371.03.07	DESTROY BRIDGES USING EXPLOSIVES		X			6	SSgt	6-J-40
8)	1371.03.08	EMPLACE HASTY PROTECTIVE MINEFIELDS		X	X		12	Cpl	6-J-40
9)	1371.03.09	EMPLACE MINE CLUSTERS	X	X	X		12	PFC	6-J-42
10)	1371.03.10	EMPLACE ROW MINEFIELDS		X	X		12	SSgt	6-J-44

DUTY AREA 04 - SURVIVABILITY

1)	1371.04.01	PLACE REVETMENT MATERIALS	X	X			12	PFC	6-J-46
2)	1371.04.02	DESIGN SURVIVABILITY POSITIONS		X			12	Cpl	6-J-46
3)	1371.04.03	CAMOUFLAGE POSITIONS, VEHICLES, OR EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM					12	PFC	6-J-47

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 05 - ADMINISTRATION									
1)	1371.05.01	MAINTAIN MIMMS PROGRAM	X	X	X		12	Cpl	6-J-48
2)	1371.05.02	SUPERVISE AN ORGANIZATIONAL MAINTENANCE PROGRAM	X	X	X		12	GySgt	6-J-48
3)	1371.05.03	ANALYZE MAINTENANCE MANAGEMENT RECORDS	X	X	X		12	GySgt	6-J-49
DUTY AREA 06 - STAFF ADVISOR									
1)	1371.06.01	EVALUATE MINEFIELD RECORDS/REPORTS		X			12	GySgt	6-J-51
2)	1371.06.02	EVALUATE ENGINEER SITUATION REPORTS					12	GySgt	6-J-51
3)	1371.06.03	EVALUATE ENGINEER RECONNAISSANCE REPORTS		X			12	GySgt	6-J-52
4)	1371.06.04	ANALYZE OPERATIONS ORDER TO DETERMINE ENGINEER TASKS/REQUIREMENTS		X			12	GySgt	6-J-52
5)	1371.06.05	ASSIST IN PREPARATION OF ENGINEER		X			12	GySgt	6-J-53
6)	1371.06.06	ASSIST IN PREPARATION OF ENGINEER PORTIONS OF AN OPERATIONS ORDER		X			12	GySgt	6-J-53
7)	1371.06.07	ADVISE EMPLOYMENT OF ENGINEER ASSETS		X			12	GySgt	6-J-54
8)	1371.06.08	DELIVER BRIEF ON ENGINEER SITUATION		X			12	GySgt	6-J-54
9)	1371.06.09	PREPARE NON NUCLEAR TARGET FOLDER		X			12	GySgt	6-J-55
DUTY AREA 07 - PROJECTS AND OPERATIONS									
1)	1371.07.01	ARRANGE EXTERNAL SUPPORT FOR ENGINEER PROJECTS /OPERATIONS		X			12	GySgt	6-J-56
2)	1371.07.02	COMPLETE STANDARD ENGINEER REPORTS		X			12	GySgt	6-J-56
3)	1371.07.03	ESTABLISH OPERATIONS CENTER					12	MSgt	6-J-57
4)	1371.07.04	DETERMINE SOURCES OF SUPPORT FOR ENGINEER/OTHER COMBAT SUPPORT REQUIREMENTS		X			12	GySgt	6-J-57
5)	1371.07.05	ADMINISTER FACILITY MAINTENANCE PROGRAM					12	GySgt	6-J-58
6)	1371.07.06	SUPERVISE ENGINEER OPERATIONS					12	Cpl	6-J-58
DUTY AREA 08 - SPECIALIZED DEMOLITIONS IN AN URBAN ENVIRONMENT									
1)	1371.08.01	COMPUTE THE NET EXPLOSIVE WEIGHT (NEW)		X			12	Sgt	6-J-60
2)	1371.08.02	BRIEF THE PRINCIPLES AND THEORY OF EXPLOSIVE DETONATION		X			12	Sgt	6-J-60
3)	1371.08.03	EXPLAIN THE THEORY AND OPERATION OF A SHAPED CHARGE	X				12	Sgt	6-J-61
4)	1371.08.04	EMPLOY A SUSPENSION CHARGE	X				12	Sgt	6-J-61
5)	1371.08.05	TAKE APPROPRIATE PROTECTIVE MEASURES		X			12	Sgt	6-J-62
6)	1371.08.06	IDENTIFY BUILDING CONSTRUCTION		X			12	Sgt	6-J-62
7)	1371.08.07	EMPLOY A DOUGHNUT CHARGE		X			12	Sgt	6-J-63
8)	1371.08.08	EMPLOY A WINDOW CHARGE		X			12	Sgt	6-J-64
9)	1371.08.09	EMPLOY A WATER CHARGE		X			12	Sgt	6-J-65
10)	1371.08.10	EMPLOY AN OVAL CHARGE		X			12	Sgt	6-J-66
11)	1371.08.11	EMPLOY A CONCRETE CHARGE		X			12	Sgt	6-J-68
12)	1371.08.12	EMPLOY A SLIDER CHARGE		X			12	Sgt	6-J-69
13)	1371.08.13	EMPLOY A DETONATING CORD LINEAR CHARGE		X			12	Sgt	6-J-70
14)	1371.08.14	EMPLOY A FIELD EXPEDIENT MILITARY OPERATIONS ON URBAN TERRAIN (MOUT) BUILDING BREACHING CHARGE		X			12	Sgt	6-J-71

MOS 1390, BULK FUEL OFFICER

DUTY AREA 01 - PROGRAMS, PROJECTS, AND OPERATIONS

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
1)	1390.01.01	DEVELOP BULK FUEL SITE REAR AREA SECURITY PLAN					12	WO	6-K-1
2)	1390.01.02	MANAGE BULK FUEL SITE CONSTRUCTION/INSTALLATION					12	WO	6-K-1
3)	1390.01.03	PLAN BULK FUEL SYSTEM EMPLACEMENT		X			12	WO	6-K-2
4)	1390.01.04	PREPARE OIL SPILL CONTINGENCY AND FIRE PREVENTION PLAN		X			12	WO	6-K-3
5)	1390.01.05	MANAGE FUEL EQUIPMENT AND FUEL					12	WO	6-K-3
6)	1390.01.06	ANALYZE OPERATIONS ORDER		X			12	WO	6-K-4
7)	1390.01.07	ANALYZE MAINTENANCE MANAGEMENT REPORTS		X			12	WO	6-K-5
8)	1390.01.08	CONDUCT SAFETY INSPECTIONS					12	WO	6-K-5
9)	1390.01.09	MANAGE EMPLOYMENT OF FUEL DISTRIBUTION SYSTEMS	X	X			12	WO	6-K-6
10)	1390.01.10	IMPLEMENT ENGINEER MAINTENANCE MANAGEMENT PROGRAM					12	WO	6-K-6
11)	1390.01.11	ASSIST IN PREPARING PRELIMINARY ENVIRONMENTAL ASSESSMENTS	X	X			12	WO	6-K-7
12)	1390.01.12	SUPERVISE FUEL SYSTEM COMMUNICATIONS PLAN					12	WO	6-K-7
13)	1390.01.13	MANAGE PETROLEUM QUALITY SURVEILLANCE AND CONTROL PROGRAM	X	X			12	WO	6-K-8
14)	1390.01.14	WRITE BULK FUEL PORTION OF OPERATIONS ORDER	X	X			12	WO	6-K-9
15)	1390.01.15	ADVISE SUPERIORS ON FUEL OPERATIONS		X			12	WO	6-K-9
16)	1390.01.16	DETERMINE OTHER SERVICES' FUEL REQUIREMENTS					12	WO	6-K-10
17)	1390.01.17	MANAGE INVENTORY PROCEDURES FOR PETROLEUM PRODUCTS	X	X			12	WO	6-K-11
18)	1390.01.18	REVIEW QUALITY DEFICIENCY REPORT (QDR) (SF 368)	X	X			6	WO	6-K-11
19)	1390.01.19	MANAGE EQUIPMENT SCHEDULED PREVENTIVE MAINTENANCE	X	X			12	WO	6-K-12
20)	1390.01.20	MANAGE BULK FUEL EQUIPMENT PREVENTIVE MAINTENANCE PROGRAM	X	X			12	WO	6-K-12
21)	1390.01.21	MONITOR EXECUTION OF FUEL DISTRIBUTION PLAN	X	X			12	WO	6-K-13
22)	1390.01.22	PREPARE FIRE PREVENTION PLANS	X	X			12	WO	6-K-14
23)	1390.01.23	MONITOR CORROSION AND DETERIORATION CONTROL					12	WO	6-K-15
24)	1390.01.24	MANAGE TACTICAL FUEL SYSTEM (TFS) ELASTOMERIC SHELF/USE LIFE PROGRAM	X	X			12	WO	6-K-15

DUTY AREA 02 - STAFF FUNCTIONS

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
1)	1390.02.01	PERFORM STAFF PLANNING OF BULK FUEL SUPPORT IN TACTICAL AND LOGISTICAL OPERATIONS		X			12	CWO2	6-K-17
2)	1390.02.02	ANALYZE BULK FUEL FACTORS AFFECTING OPERATIONS AND EXERCISES		X			12	CWO2	6-K-17
3)	1390.02.03	DETERMINE/REGISTER BULK FUEL REQUIREMENTS WITH THE APPROPRIATE AGENCY		X			12	CWO2	6-K-18

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
4)	1390.02.04	DETERMINE/REGISTER BULK FUEL PREPOSITIONED WAR RESERVE MATERIEL REQUIREMENT (PWRMR) WITH APPROPRIATE COMMANDER IN CHIEF (CINC)					12	CWO2	6-K-19
		DUTY AREA 03 - NON-EQUIPMENT OPERATIONAL PROCEDURES							
1)	1390.03.01	PREPARE FUEL DISTRIBUTION PLAN	X	X			12	WO	6-K-20
2)	1390.03.02	RECOMMEND COVER, CONCEALMENT, AND CAMOUFLAGE ALTERNATIVES		X			12	WO	6-K-20
3)	1390.03.03	ENFORCE ENVIRONMENTAL CONTROL AND FIRE REGULATIONS					12	WO	6-K-21
4)	1390.03.04	MANAGE PROCEDURES REQUIRED TO CHANGE PRODUCT TYPES					12	WO	6-K-21
5)	1390.03.05	MONITOR PUMP SCHEDULED PREVENTIVE MAINTENANCE					12	WO	6-K-22
6)	1390.03.06	MANAGE PREPARATION OF TACTICAL FUEL EQUIPMENT FOR STORAGE/EMBARKATION	X	X			12	WO	6-K-22
7)	1390.03.07	MANAGE THE DAILY INVENTORY /ACCOUNTABILITY OF BULK PETROLEUM PRODUCTS	X	X			12	WO	6-K-23
8)	1390.03.08	MANAGE MONTHLY BULK PETROLEUM INVENTORY	X	X			12	WO	6-K-24
9)	1390.03.09	ADMINISTER FIRST AID FOR FUEL INGESTION/CONTACT WITH SKIN/EYES	X	X			3	WO	6-K-24
10)	1390.03.10	DETERMINE DAY OF SUPPLY BY TYPE OF FUEL	X	X			12	WO	6-K-25
11)	1390.03.11	DETERMINE SOURCE OF SUPPLY					12	WO	6-K-25
12)	1390.03.12	PROVIDE FUEL CONSUMPTION ESTIMATES TO HIGHER HEADQUARTERS	X	X			12	WO	6-K-26
		DUTY AREA 04 - TRAINING PROGRAMS							
1)	1390.04.01	MANAGE MOS TRAINING PROGRAM					12	WO	6-K-27
		DUTY AREA 05 - MIMMS							
1)	1390.05.01	MANAGE MAINTENANCE ADMINISTRATION		X	X		12	WO	6-K-29
2)	1390.05.02	MANAGE RECORDS AND FORMS		X			12	WO	6-K-29
3)	1390.05.03	MANAGE PERSONNEL RESOURCES		X			12	WO	6-K-30
4)	1390.05.04	MANAGE PUBLICATIONS RESOURCES		X			12	WO	6-K-30
5)	1390.05.05	SUPERVISE SUPPLY SUPPORT		X			12	WO	6-K-31
6)	1390.05.06	MANAGE SUPPORT AND TEST EQUIPMENT		X			12	WO	6-K-32
7)	1390.05.07	MANAGE CORRECTIVE MAINTENANCE (CM) PROGRAM		X			12	WO	6-K-33
8)	1390.05.08	MANAGE MIMMS-AIS		X	X		12	WO	6-K-34
		MOS 1391, BULK FUEL SPECIALIST							
		DUTY AREA 01 - TACTICAL FUEL EQUIPMENT							
1)	1391.01.01	INSTALL PUMP ASSEMBLY EXPEDIENT REFUELER SYSTEM	X	X			12	Sgt	6-L-1
2)	1391.01.02	SETUP SYSTEM TO RECIRCULATE FUEL		X			12	Sgt	6-L-1
3)	1391.01.03	ASSEMBLE HELICOPTER EXPEDIENT REFUELING SYSTEM (HERS)	X	X			12	Pvt	6-L-2

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
4)	1391.01.04	PLACE FIRE FIGHTING EQUIPMENT	X	X			6	LCpl	6-L-3
5)	1391.01.05	DIRECT BULK FUEL SITE CONSTRUCTION/INSTALLATION	X	X			12	GySgt	6-L-4
6)	1391.01.06	PLAN BULK FUEL SYSTEM LAYOUT	X	X			12	GySgt	6-L-4
7)	1391.01.07	SET UP SIXCON PUMP MODULE AND TANK	X	X	X		12	Pvt	6-L-5
		DUTY AREA 02 - EQUIPMENT OPERATIONAL PROCEDURES							
1)	1391.02.01	OPERATE THE 125 GPM PUMP IN SUPPORT OF FUEL OPERATIONS	X	X			12	Pvt	6-L-7
2)	1391.02.02	OPERATE THE 350 GPM PUMP IN SUPPORT OF FUEL OPERATIONS	X	X			12	Pvt	6-L-7
3)	1391.02.03	OPERATE THE 600 GPM PUMP IN SUPPORT OF FUEL OPERATIONS	X	X			12	Pvt	6-L-8
4)	1391.02.04	OPERATE THE TWIN AGENT UNIT (TAU) IN SUPPORT OF FUEL OPERATIONS	X	X			12	Pvt	6-L-9
5)	1391.02.05	OPERATE HOSE EVACUATION KIT	X	X			12	Pvt	6-L-10
6)	1391.02.06	OPERATE 250 CFM COMPRESSOR	X	X			12	LCpl	6-L-11
		DUTY AREA 03 - NON-EQUIPMENT OPERATIONAL PROCEDURES							
1)	1391.03.01	CHECK WATER LEVEL WITH WATER FINDING PASTE	X	X			12	Pvt	6-L-13
2)	1391.03.02	CONDUCT GRAVITY (API) TESTS AND CORRECT TO 60 DEGREES	X	X			12	Sgt	6-L-13
3)	1391.03.03	CONDUCT MARK II WATER TESTS		X			12	Sgt	6-L-14
4)	1391.03.04	CONDUCT MARK III SEDIMENT TESTS		X			12	Sgt	6-L-15
5)	1391.03.05	CONDUCT VISUAL FUEL TESTS	X	X			12	Sgt	6-L-17
6)	1391.03.06	OBTAIN ALL-LEVEL FUEL SAMPLES X					12	Sgt	6-L-17
7)	1391.03.07	DETERMINE FUEL SYSTEM ICING INHIBITOR (FSII) CONTENT USING B-2 TEST METHOD		X			12	LCpl	6-L-18
8)	1391.03.08	IMPLEMENT PETROLEUM QUALITY ASSURANCE AND CONTROL PROGRAM	X	X			12	GySgt	6-L-19
9)	1391.03.09	TEST AVIATION FUEL UTILIZING THE AQUA-GLO TEST WITH AVIATION FUEL TEST KIT	X	X			12	Sgt	6-L-20
10)	1391.03.10	COMPLETE PETROLEUM SAMPLE TAG (DA FORM 1804)	X	X			12	Pvt	6-L-20
11)	1391.03.11	DIRECT FUEL SAMPLING /GAUGING/TESTING	X	X			12	Sgt	6-L-21
		DUTY AREA 04 - PREVENTIVE MAINTENANCE							
1)	1391.04.01	PERFORM OPERATORS PUMP SCHEDULED PREVENTIVE MAINTENANCE	X	X			12	LCpl	6-L-23
2)	1391.04.02	PERFORM 500 GALLON COLLAPSIBLE DRUM PREVENTIVE MAINTENANCE	X	X			12	LCpl	6-L-23
3)	1391.04.03	PERFORM FILTER/SEPARATOR PREVENTIVE MAINTENANCE	X	X			6	LCpl	6-L-24
4)	1391.04.04	PERFORM FUEL MONITOR (GO/NO GO) PREVENTIVE MAINTENANCE	X	X			12	LCpl	6-L-25
5)	1391.04.05	PERFORM FUEL TANK OPERATOR PREVENTIVE MAINTENANCE	X	X			12	LCpl	6-L-25
6)	1391.04.06	PERFORM TWIN AGENT UNIT (TAU) PREVENTIVE MAINTENANCE	X	X			12	Sgt	6-L-26
7)	1391.04.07	PERFORM COLLAPSIBLE FUEL TANK REPAIRS	X	X			12	LCpl	6-L-26

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
8)	1391.04.08	ASSIST IN THE PREPARATION OF TACTICAL FUEL SYSTEMS (TFS) FOR STORAGE	X	X			12	Sgt	6-L-27
9)	1391.04.09	PERFORM PREVENTIVE MAINTENANCE ON SIXCON PUMP MODULE, TANK AND REFERENCES	X	X	X		12	Pvt	6-L-27
10)	1391.04.10	PERFORM 250 CFM PREVENTIVE MAINTENANCE	X	X			12	Pvt	6-L-28
		DUTY AREA 05 - CORRECTIVE MAINTENANCE							
1)	1391.05.01	DRAW SCHEMATIC OF BULK FUEL OPERATIONS	X	X			12	Sgt	6-L-30
2)	1391.05.02	EXECUTE OIL SPILL CONTINGENCY PLAN	X	X			12	LCpl	6-L-30
3)	1391.05.03	DETERMINE DAY OF SUPPLY BY TYPE OF FUEL	X	X			12	Sgt	6-L-31
4)	1391.05.04	DETERMINE SOURCE OF SUPPLY					12	Sgt	6-L-31
5)	1391.05.05	MONITOR PETROLEUM OILS AND LUBRICANTS (POL) FUEL CONSUMPTION/STORAGE	X	X			12	GySgt	6-L-32
6)	1391.05.06	PLAN A PETROLEUM FIRE PREVENTION AND SAFETY PROGRAM	X	X			12	GySgt	6-L-33
7)	1391.05.07	EMPLOY FUEL DISTIBUTION SYSTEMS	X	X			12	GySgt	6-L-34
8)	1391.05.08	DEVELOP BULK FUEL SITE REAR AREA SECURITY PLAN	X	X			12	GySgt	6-L-34
9)	1391.05.09	DEVELOP A PETROLEUM ENVIRONMENTAL CONTROL PROGRAM	X	X			12	GySgt	6-L-35
10)	1391.05.10	PREPARE PUMPING SCHEDULE ORDER		X			12	GySgt	6-L-36
11)	1391.05.11	CONDUCT DAILY INVENTORY OF BULK PETROLEUM PRODUCTS		X			12	Sgt	6-L-36
12)	1391.05.12	CONDUCT MONTHLY PETROLEUM PHYSICAL INVENTORY		X			12	Sgt	6-L-37
13)	1391.05.13	ADMINISTER FIRST AID FOR FUEL INGESTION/CONTACT WITH SKIN/EYES	X	X			3	Pvt	6-L-37
14)	1391.05.14	ASSIST IN PREPARING PRELIMINARY ENVIRONMENTAL ASSESSMENTS		X			12	GySgt	6-L-38
15)	1391.05.15	SUPERVISE TACTICAL FUEL SYSTEM (TFS) ELASTOMERIC SHELF/USE LIFE PROGRAM	X	X			12	GySgt	6-L-39

COMMON INDIVIDUAL TRAINING STANDARDS

1. General. This enclosure lists the ITS tasks common to more than one MOS within the OccFld. It is designed to assist the trainer in consolidating training for common tasks.

2. Format. The columns are as follows:

a. TASK TITLE. A listing of all tasks common to at least two MOSs.

b. COMMON TASK NUMBERS. A listing of the ITS designators for all ITSs containing the same task title.

TASK TITLE	COMMON TASK NUMBERS
ADMINISTER FIRST AID FOR FUEL INGESTION /CONTACT WITH SKIN/EYES	1390.03.09 1391.05.13
ANALYZE MAINTENANCE MANAGEMENT RECORDS	1361.04.02 1371.05.03
ASSIST IN PREPARING PRELIMINARY ENVIRONMENTAL ASSESSMENTS	1390.01.11 1391.05.14
~~CAMOUFLAGE POSITIONS, VEHICLES, OR~~ EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM	1316.10.01 1341.01.06 1345.03.02 1371.04.03
CONDUCT INVENTORY OF TOOLS SETS, CHESTS, AND KITS	1316.10.02 1341.01.07
CONDUCT SAFETY INSPECTIONS	1316.01.06 1345.01.09 1390.01.08
DESIGN A NONSTANDARD BRIDGE	1302.01.13 1371.02.09
DESIGN CONCRETE FORMS	1302.04.11 1371.01.10
DETERMINE DAY OF SUPPLY BY TYPE OF FUEL	1390.03.10 1391.05.03
DETERMINE SOURCE OF SUPPLY	1390.03.11 1391.05.04
DEVELOP BULK FUEL SITE REAR AREA SECURITY PLAN	1390.01.01 1391.05.08
ENGAGE TARGETS WITH EXPEDIENT DEMOLITIONS	1302.09.05 1371.02.21
ESTIMATE HORIZONTAL CONSTRUCTION PROJECT PRODUCTION AND LOGISTICAL REQUIREMENTS	1310.03.02 1349.03.03
MAINTAIN MIMMS PROGRAM	1361.04.01 1371.05.01
MANAGE MAINTENANCE ADMINISTRATION	1310.01.01 1390.05.01
MANAGE MIMMS-AIS	1310.01.10 1390.05.08
MANAGE RECORDS AND FORMS	1310.01.03 1390.05.02
PERFORM CORROSION PREVENTION AND CONTROL	1316.06.06 1345.03.01

TASK TITLE	COMMON TASK NUMBERS
REVIEW DAILY PROCESS REPORT (DPR)	1316.09.05 1341.06.02
SUPERVISE MAINTENANCE ADMINISTRATION	1349.01.01 1361.05.02

ENCLOSURE (4)

TRAINING SUPPORT

1. This enclosure summarizes five categories of training support by ITS for the entire OccFld:

Appendix A: References

Appendix B: Training Materiel

Appendix C: Ammunition, Explosives, and Pyrotechnics

Appendix D: Distance Learning Products

Appendix E: Performance Support Tools

2. If support identified in any appendix is not applicable to this OccFld, the appendix will include a statement to that effect.

REFERENCES

1. General. References are doctrinal publications, technical manuals, and other publications upon which an ITS and its performance steps are based. They should be readily available and provide the detailed procedures for accomplishing the task. This section includes a list of all reference publications associated with any task in this OccFld.

2. Format. The columns are as follows:

a. REFERENCES. This column summarizes all references associated with at least one ITS task in this OccFld.

b. TASK NUMBERS. A listing of all ITS tasks to which the corresponding reference is associated.

REFERENCES	TASK NUMBERS
(CRRC) Appropriate Reference Manuals	1342.02.21
(RRC) Appropriate Reference Manuals	1342.02.20
Appendix 1 to Annex D of Operations Order	1390.02.01
Applicable MSDS Sheets	1342.02.20
Applicable Marine Corps Orders	1330.01.08 1330.01.27
Appropriate Engineer Equipment Material Fielding Plans (MCO'S)	1310.01.11 1349.01.11
Appropriate Equipment Technical Publications	1302.06.02 1310.01.08 1310.01.09 1310.01.11 1310.03.02 1310.03.03 1310.03.04 1316.01.02 1316.01.03 1316.01.04 1316.01.05 1316.02.01 1316.02.02 1316.02.03 1316.02.04 1316.02.05 1316.02.06 1316.03.01 1316.03.02 1316.03.03 1316.03.04 1316.03.05 1316.03.06 1316.03.07 1316.03.08 1316.04.01 1316.04.02 1316.04.03 1316.04.04 1316.04.05 1316.04.06 1316.05.01 1316.05.02 1316.05.03 1316.05.04 1316.05.05 1316.05.06 1316.05.07 1316.06.01 1316.06.07 1316.06.08 1316.08.01 1316.08.02 1316.09.01 1316.09.02 1316.09.03 1316.09.04 1341.01.01 1341.01.02 1341.01.07 1341.02.01 1341.02.02 1341.03.01 1341.03.02 1341.03.03 1341.03.04 1341.03.05 1341.03.06 1341.03.07 1341.03.08 1341.03.09 1341.03.11 1341.03.12 1341.03.13 1341.03.14 1341.03.15 1341.04.02 1341.05.02 1342.02.11 1345.01.08 1345.04.01 1345.04.02 1345.04.03 1345.05.01 1345.06.01 1345.06.02 1345.06.03 1349.01.08 1349.01.09 1349.01.11 1349.03.02 1349.03.03 1349.03.04 1349.03.05

Appendix A to
ENCLOSURE (5)

REFERENCES	TASK NUMBERS			
	1390.01.19	1390.05.07		
Appropriate Explosive Reference	1371.02.22			
Appropriate Hazardous Materials Program	1310.04.01			
Appropriate Manufacturer's Assembly Manual /Instructions	1371.02.15			
Appropriate Modification Instructions	1341.05.01	1390.05.04		
Appropriate Reference Materials	1330.01.27	1371.07.06		
Appropriate Service Manuals	1342.01.01	1342.02.01		
Appropriate Stock Lists	1310.01.04	1341.05.01	1341.06.01	1349.01.04
	1390.05.02	1390.05.04	1390.05.06	
Appropriate TM for Portable Power Source	1371.01.01			
Appropriate TM /Manufacturer's Manual for Chain Saw	1371.01.13	1371.01.14		
Appropriate TM /Manufacturer's Manual for Power Tools	1371.01.01			
Appropriate TM /Manufacturer's Manual for the Concrete Mixer	1371.01.05			
Appropriate TMDE Technical Publications	1341.02.02	1342.01.02		
Appropriate Tungsten Inert Gas/Plasma Cutting Arc Civilian Operator's Manual	1316.01.01			
Associated Equipment Technical Manuals	1390.03.05	1390.03.06		
Aviation Support Logistics (ASL) Aircraft Fuel Consumption Spreadsheets	1390.03.10	1391.05.03		
Computer user's manual	1361.01.01	1361.01.02	1361.01.03	1361.01.04
	1361.02.03	1361.02.04	1361.03.01	1361.03.03
	1361.03.05			
Construction Directive/Plan	1310.03.03	1349.03.04		
Cummins "B" Series Shop Manual	1342.02.07	1342.02.08	1342.02.09	1342.02.10
Expeditionary Airfield Configuration Manual	1302.01.05			
Fed Log	1310.01.11	1341.05.02	1349.01.07	1349.01.11
Federal, State, and Local Regulations	1310.02.02	1310.03.02	1310.03.04	1349.03.03

REFERENCES	TASK NUMBERS			
Federal, State, and Local Resource Management Guidelines	1330.01.04			
Guidebook for Assault Entry Techniques, Volume I and II	1371.08.09			
HQMC Established Personnel Manning Level	1390.05.03			
Hamilton Jet Service Manual	1342.02.05			
Local SOP	1330.01.04	1371.01.19	1390.05.03	1391.03.03
	1391.03.06			
Log Management Information System (LMIS) file	1391.05.03			
Logistic Management Information System (LMIS) Fuel Database	1390.03.10			
Manufacturer's Manual	1341.03.10	1345.02.07		
Manufacturer's Shop Manual	1371.01.16			
Manufacturer's instrument operator's manual	1361.02.01	1361.02.02		
Modern Welding dtd 1997	1316.05.07			
Navy/Marine Corps Runway Crater Repair (Interim Handbook), Navy Civil Engineering Laboratory, Port Hueneme	1302.01.06	1371.02.14		
OMC Service Manuals	1342.02.04	1342.02.06	1342.02.10	1342.02.12
	1342.02.13	1342.02.14	1342.02.15	1342.02.16
	1342.02.17	1342.02.18	1342.02.19	1342.03.01
Organizational Fuel Spill Control and Countermeasures (SPCC) Plan	1391.05.02			
Publication Library Management System (PLMS)	1390.05.04			
Rapid Runway Repair Concept of Operations, Air Force Engineering and Service Center, Tyndall AFB, FL dtd September 1988	1302.01.06			
Rigid Raiding Craft Operators Manual	1342.02.02			
SL-1-2	1341.05.01			
SL-1-3	1341.05.01			
Sheet Metal Shop Practices	1316.01.02	1316.06.07	1316.06.08	1391.03.03

REFERENCES	TASK NUMBERS
Software user's manual	1361.01.01 1361.01.02 1361.01.03 1361.01.04 1361.02.03 1361.02.04 1361.03.01 1361.03.03 1361.03.05
Standard NATO Agreement 2929	1302.01.06
Unit MMSOP	1361.04.01 1361.05.02 1361.05.03 1361.05.04 1390.04.01 1390.05.05 1390.05.06 1390.05.07
Unit T/E	1310.01.02 1310.01.04 1310.01.05 1310.01.06 1310.01.07 1310.01.11 1310.02.02 1349.01.02 1349.01.04 1349.01.05 1349.01.06 1349.01.07 1349.01.11 1349.03.02 1361.05.01 1390.05.04 1390.05.05 1390.05.06
Unit T/O	1310.01.02 1310.01.04 1310.01.05 1310.01.07 1310.02.02 1349.01.02 1349.01.04 1349.01.05 1349.01.07 1349.03.02 1361.05.01 1390.05.04 1390.05.06
Urban Mobility Engineer's Guidebook	1371.02.23 1371.08.01 1371.08.02 1371.08.07 1371.08.08 1371.08.10 1371.08.11 1371.08.12 1371.08.13
Zodiac F-470 Field Service Manual	1342.02.21
29 CFR 1910, Code of Federal Regulations	1330.01.10
AR 200-1, Environmental Protection and Enhancement	1390.01.04 1390.03.03 1391.05.09 1391.05.14
ARTEP 10-417-30-MTP, Mission Training Plan for Petroleum Pipeline and Terminal Company	1390.01.01 1390.01.21
ASTM D 1298, API Gravity	1391.03.02
ASTM D 380, Standard Test Method for Rubber Hose	1390.01.24 1391.05.15
ASTM D-1250, Petroleum Measurement Table, Volume Correction Factors	1390.03.07 1391.03.02 1391.03.06
ASTM D287, API Gravity	1391.03.02
CJCSM 3150.14, Joint Reporting Structure (JRS) Logistics	1390.01.15
DLAR 140.55, Reporting of Item and Packaging Discrepancies	1390.01.24 1391.05.15
DOD 4140.25, Management of Bulk Petroleum Products, Storage and Distribution Facilities	1390.01.17 1390.02.03 1390.02.04 1390.03.08 1390.03.11 1391.05.04 1391.05.11 1391.05.12

REFERENCES	TASK NUMBERS			
DOD 4140.25-M, DOD Management of Bulk Petroleum	1390.01.05			
DOD 4140.27-M, Shelf-Life Item Management Manual	1390.01.24	1391.05.15		
FC 5-104-1, Airfield Damage Repair	1302.01.06			
FED-STD 791, Lubricants, Liquid Fuels, and Related Products: Methods of Testing	1391.03.07			
FM 10-52, Water Supply in Theater of Operations	1302.04.16			
FM 10-67, Petroleum Supply in Theater of Operation	1302.04.18	1390.01.08	1390.01.09	1390.02.02
	1390.02.03	1390.03.01	1390.03.04	1390.03.10
	1391.05.03	1391.05.06		
FM 10-69, Petroleum Supply Point Equipment and Operations	1390.01.03	1390.01.05	1390.01.21	1391.01.06
FM 101-10-1/2, Staff Officer's Field Manual Organizational Technical Data Planning Factors	1390.01.16	1390.03.10		
FM 20-22, Vehicle Recovery Operations	1345.06.06			
FM 20-3, Camouflage	1302.03.03	1371.04.03		
FM 20-32, Mine/Countermine Operations	1302.01.22	1302.01.23	1302.01.24	1302.01.25
	1302.02.01	1302.02.02	1302.02.03	1302.02.05
	1302.03.01	1371.02.17	1371.02.18	1371.03.06
	1371.03.08	1371.03.09	1371.06.01	
FM 21-75, Combat Skills of the Soldier	1302.09.05	1371.02.17	1371.02.18	1371.02.21
	1371.03.06	1371.03.08	1371.03.09	1371.03.10
	1371.04.01			
FM 34-130, Intelligence Preparation of the Battlefield	1302.01.01	1302.01.07	1302.01.21	1302.02.01
	1302.02.02	1302.02.03	1302.03.01	1302.03.02
	1302.04.01	1302.04.02		
FM 43-2, Metalbody Repair and Related Operations	1316.07.01			
FM 5-100, Engineer Combat Operations	1302.01.01	1302.01.07	1302.01.21	1302.02.01
	1302.02.04	1302.08.01	1310.03.04	1349.03.05
	1371.01.18	1371.06.06	1371.06.07	1371.06.08
	1390.01.06			
FM 5-101, Mobility	1302.01.01	1302.01.02	1302.01.21	1371.02.18
	1371.02.19	1371.02.20		

REFERENCES	TASK NUMBERS			
FM 5-101-5-1, Operational Terms and Symbols	1302.07.02			
FM 5-102, Countermobility	1302.02.01	1302.02.04	1302.02.05	1302.04.03
	1371.03.01	1371.03.02	1371.03.03	1371.03.04
	1371.03.05	1371.03.07	1371.03.08	1371.03.09
FM 5-103, Survivability	1302.03.01	1302.03.02	1302.03.03	1302.03.04
	1302.04.03	1310.03.04	1349.03.05	1371.01.15
	1371.01.18	1371.04.01	1371.04.02	1371.04.03
	1390.01.06	1390.03.02		
FM 5-104, General Engineering	1302.04.03			
FM 5-170, Engineer Reconnaissance	1302.01.01	1302.01.07	1302.01.21	1302.01.24
	1302.01.25	1302.02.01	1302.07.01	1302.07.02
	1371.02.06	1371.02.07	1371.02.08	1371.02.10
	1371.02.11	1371.02.12	1371.02.16	1371.02.27
	1371.06.03			
FM 5-20, Camouflage	1316.10.01	1341.01.06	1345.03.02	1390.03.02
FM 5-250, Explosives and Demolitions	1302.01.23	1302.02.03	1302.07.03	1302.09.01
	1302.09.02	1302.09.03	1302.09.04	1302.09.05
	1371.02.16	1371.02.17	1371.02.19	1371.02.20
	1371.02.21	1371.02.22	1371.02.23	1371.03.02
	1371.03.03	1371.03.05	1371.03.06	1371.03.07
	1371.03.09	1371.06.09		
FM 5-33, Terrain Analysis	1302.04.06	1302.04.07	1371.02.25	1371.02.26
FM 5-335, Drainage	1302.01.16	1361.03.01		
FM 5-410, Military Soils Engineering	1302.04.05	1302.04.06	1302.04.07	1371.01.18
	1371.02.24			
FM 5-412, Project Management	1302.01.04	1302.01.19	1302.04.04	1302.04.05
	1302.04.06	1302.04.07	1302.04.08	1302.04.09
	1302.04.13	1302.04.15	1310.03.02	1310.03.03
	1330.01.01	1330.01.02	1330.01.03	1349.03.03
	1349.03.04	1361.03.04	1361.03.05	1371.01.17
	1371.01.18	1371.01.20		
FM 5-426, Carpentry	1302.04.09	1371.01.01	1371.01.02	1371.01.03
	1371.01.04	1371.01.10	1371.01.11	1371.01.17
	1371.01.18			
FM 5-428, Concrete and Masonry	1302.04.10	1302.04.11	1302.04.12	1302.04.13
	1302.04.14	1302.04.15	1361.01.03	1361.03.02
	1371.01.05	1371.01.06	1371.01.07	1371.01.08
	1371.01.09	1371.01.10	1371.01.11	1371.01.12

REFERENCES	TASK NUMBERS			
FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations	1302.01.03	1302.01.04	1302.01.05	1302.01.15
	1302.01.16	1302.01.17	1302.01.18	1302.01.19
	1302.01.20	1302.04.03	1302.04.05	1302.04.06
	1302.04.07	1361.01.04	1361.03.01	1371.01.18
	1371.02.25	1371.02.26		
FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations	1302.01.03	1302.01.05	1302.01.06	1302.04.03
	1302.04.05	1302.04.06	1302.04.07	1361.03.01
	1371.01.18	1371.02.13		
FM 5-434, Earthmoving Operations	1302.01.04	1302.01.15	1302.01.16	1302.01.17
	1302.04.05	1302.04.06	1302.04.07	
FM 5-446, Military Non-Standard Fixed Bridges	1302.01.12	1302.01.13	1302.01.14	1371.02.07
	1371.02.08	1371.02.09	1371.02.12	1371.02.27
FM 5-530, Materials Testing	1302.01.16	1302.04.05	1361.03.01	1371.02.24
FM 5-553, General Drafting	1361.01.01	1361.01.02	1361.01.03	1361.01.04
FM 90-1, Countermobility	1310.03.04	1349.03.05	1390.01.06	
FM 90-10, Military Operations on Urban Terrain	1371.08.14			
FM 90-13-1, Combined Arms Breaching Operations	1302.01.01	1302.01.07	1302.01.21	1302.01.22
	1310.03.04	1349.03.05	1371.02.17	1371.02.19
	1371.02.20	1390.01.06		
FM 90-14, Rear Battle	1390.01.01	1391.05.08		
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	1391.04.03	1391.04.04	1391.04.05	1391.04.07
	1391.04.08	1391.05.01	1391.05.04	1391.05.05
	1391.05.08	1391.05.11	1391.05.13	1391.05.15
TM 4700-15/1, Equipment Recording Procedures	1302.06.01	1302.06.02	1310.01.03	1310.01.06
	1310.01.07	1310.01.08	1310.01.09	1310.01.10
	1310.02.01	1310.03.01	1316.08.01	1316.08.02
	1316.09.01	1316.09.02	1316.09.03	1316.09.04
	1316.09.05	1316.10.02	1341.01.01	1341.01.02
	1341.01.03	1341.01.05	1341.01.07	1341.02.01
	1341.03.01	1341.03.02	1341.03.03	1341.03.04
	1341.03.05	1341.03.06	1341.03.07	1341.03.08
	1341.03.09	1341.03.10	1341.03.12	1341.03.13
	1341.03.14	1341.03.15	1341.05.01	1341.06.02
	1342.01.01	1342.02.01	1342.02.03	1342.02.04
	1342.02.05	1342.02.06	1342.02.07	1342.02.08
	1342.02.09	1342.02.10	1342.02.11	1342.02.12
	1342.02.13	1342.02.14	1342.02.15	1342.02.16
	1342.02.17	1342.02.18	1342.02.19	1342.02.20
	1342.02.21	1345.01.08	1345.02.01	1345.02.02
	1345.02.03	1345.02.04	1345.02.05	1345.02.06
	1345.02.07	1345.02.08	1345.02.09	1345.02.10
	1345.02.11	1345.02.12	1345.02.13	1345.02.14
	1345.02.15	1345.02.16	1345.03.03	1345.04.01
	1345.04.02	1345.04.03	1345.06.01	1345.06.02
	1345.06.04	1349.01.03	1349.01.06	1349.01.07
	1349.01.08	1349.01.09	1349.01.10	1349.02.01
	1349.03.01	1361.04.01	1361.04.02	1361.05.03
	1371.05.01	1371.05.02	1371.05.03	1390.01.07
	1390.01.10	1390.01.18	1390.01.19	1390.01.20
	1390.01.24	1390.03.06	1390.05.02	1390.05.05
	1390.05.06	1390.05.07	1390.05.08	1391.05.15
TM 4930-15&P/3, Pump Assembly 600 GPM	1391.02.03			
TM 4930-15/2, Pump Assembly 600 GPM	1391.02.03	1391.04.01		
TM 5-1940-227-20, Bridge Boat Organizational Maintenance Manual	1342.02.05	1342.02.06	1342.02.07	1342.02.08
	1342.02.09	1342.02.10		
TM 5-1940-227-20P, Bridge Boat Maintenance Repair Parts	1342.02.05	1342.02.06	1342.02.07	1342.02.08
	1342.02.09	1342.02.10		
TM 5-1940-277-10, Operator's Manual, Bridge Erection Boat USCSBMK 1 and 2	1371.02.02	1371.02.03	1371.02.04	1371.02.05
TM 5-1940-277-20, Bridge Erection Boat Organizational Maintenance Manual	1342.02.02			
TM 5-1940-277-34, Bridge Boat Maintenance Manual	1342.02.05	1342.02.06	1342.02.07	1342.02.08
	1342.02.09	1342.02.10		

REFERENCES	TASK NUMBERS			
TM 5-1940-277-34P, Bridge Boat Maintenance Repair Parts	1342.02.05	1342.02.06	1342.02.07	1342.02.08
	1342.02.09	1342.02.10		
TM 5-232, Elements of Construction Surveying	1361.01.04	1361.02.01	1361.02.02	1361.02.04
TM 5-2350-262-10, Operation and Maintenance Manual; Tractor M9 ACE	1345.02.16			
TM 5-2420-224-10, Operation and Maintenance Manual; Truck, Small Emplacement Excavator (SEE)	1345.02.12	1345.02.15		
TM 5-280, Foreign Mine Warfare Equipment	1371.02.17			
TM 5-302, Construction in the Theater of Operations	1371.01.18			
TM 5-3805-248-14&P-1, Technical Manual; Earth, Scraper	1345.02.02			
TM 5-426, Carpentry	1302.04.08	1330.01.02	1361.01.03	1361.03.02
TM 5-4310-256-15, Compressor Recip Air Hand, Truck Mounted	1391.02.06	1391.04.10		
TM 5-4320-226-14, 350 GPM Pump or Appropriate Model TM	1391.04.01			
TM 5-4320-304-14, Pump, Reciprocating, Diaphragm, 125 GPM	1391.04.01			
TM 5-4330-211-12, Operator and Organizational Maintenance Manual, 350 GPM Pump	1391.04.03	1391.04.04		
TM 5-4330-217-12, Operator and Organizational Mainten-ance Manual, Filter/Separator, Liquid Fuel 100 GPM, Frame Mounted	1391.04.03	1391.04.04		
TM 5-5420-209-12, Operator's and Organiza-tional Manual, Improved Floating Bridge (Ribbon Bridge)	1302.01.09	1371.02.02	1371.02.03	1371.02.04
	1371.02.06	1371.02.07	1371.02.08	
TM 5-5420-212-12, Medium Girder Bridge	1302.01.10	1302.01.11	1371.02.01	1371.02.07
	1371.02.08			
TM 5-5420-212-12-1, Link Reinforcement Set	1302.01.10	1302.01.11	1371.02.01	1371.02.07
	1371.02.08			
TM 5-581B, Construction Drafting	1361.01.03	1361.01.04	1361.03.02	

REFERENCES	TASK NUMBERS			
TM 5-6630-218-10, Aviation Fuel Contaminant Test Kit	1391.03.09			
TM 5-704, Construction Print Reading in the Field	1302.04.08	1302.04.09	1330.01.01	1330.01.02
	1361.01.03	1361.03.02	1371.01.02	1371.01.04
	1371.01.07	1371.01.09	1371.01.10	1371.01.11
	1371.01.12			
TM 5-760, Interior Wiring	1361.01.03			
TM 750-254, Tactical Vehicle Cooling System	1316.07.01			
TM 9-1300-206, Explosive Standards	1371.08.02	1371.08.04		
TM 9-1300-214, Military Explosives	1371.08.02	1371.08.03	1371.08.04	
TM 9-237, Welding Theory and Application	1316.01.01	1316.01.03	1316.01.04	1316.01.05
	1316.02.01	1316.02.02	1316.02.03	1316.02.04
	1316.02.05	1316.02.06	1316.03.01	1316.03.02
	1316.03.03	1316.03.04	1316.03.05	1316.03.06
	1316.03.07	1316.03.08	1316.04.01	1316.04.02
	1316.04.03	1316.04.04	1316.04.05	1316.04.06
	1316.05.01	1316.05.02	1316.05.03	1316.05.04
	1316.05.05	1316.05.06	1316.05.07	1316.06.01
	1316.06.02	1316.06.03	1316.06.04	1316.06.05
	1316.07.01	1316.09.01		
TM 9130-12, Fuel Handling Procedures (Liquid Fuel)	1390.03.04	1390.04.01	1391.01.02	1391.01.03
	1391.01.04	1391.03.05	1391.04.08	
TM 96702D-14/1, Pump Centrifugal Engine 600 GPM	1391.02.03			
TSP 051-E-0002, Comply with the Host Nation Federal, State & Local, Environmental Law and Regulations	1390.01.04	1390.03.03		
UM 4400-124, SASSY Using Units Procedures	1310.01.06	1349.01.06	1371.01.19	1390.05.05
UM 4400-15, Organic Property Control Procedures	1310.01.06	1390.05.05		
UM 4790-5, MIMMS (AIS) Field Maintenance Procedures	1302.06.01	1310.01.03	1310.01.06	1310.01.10
	1316.08.02	1316.09.01	1316.09.04	1316.09.05
	1341.01.01	1341.01.03	1341.06.02	1345.06.01
	1349.01.03	1349.01.06	1349.01.10	1361.04.01
	1361.04.02	1361.05.03	1371.05.01	1371.05.02
	1371.05.03	1390.01.07	1390.01.10	1390.01.19
	1390.05.02	1390.05.05	1390.05.08	

TRAINING MATERIEL

1. General. Training materiel includes all training devices, simulators, aids, equipment, and materials [except ammunition, distance learning (DL) products, and performance support tools (PST)] required or recommended to properly train the task under the specified conditions and to the specified standard.

2. Format. The columns are as follows:

a. MATERIEL. This column summarizes all training materiel used in support of at least one ITS task in this OccFld.

b. TASK NUMBERS. A listing of all ITS tasks supported by the corresponding training support item in the Materiel column. An asterisk (*) precedes any task for which the training support item is mandatory for execution of the task.

MATERIEL	TASK NUMBERS
550 Parachute Cord	*1371.08.09
8’ x 1" x 2" Wood Stock (Target Stakes/Prop Stick)	*1371.08.09 *1371.08.10 *1371.08.11
Appropriate medium	*1371.08.08 1371.08.12
Ballistic Disk Kit	*1371.02.23
Breacher’s Logbook	*1371.08.09 *1371.08.14
Double Sided Tape	*1371.08.08 *1371.08.09 *1371.08.11 1371.08.12 *1371.08.13 *1371.08.14
E-Silhouette Target (or suitable backing material)	*1371.08.09 *1371.08.10
Electrical Tape	*1371.08.09
Flak Jacket	*1371.08.07 *1371.08.08 *1371.08.09 *1371.08.10 *1371.08.11 *1371.08.12 *1371.08.13 *1371.08.14
Gas Mask	1371.08.08 *1371.08.09 1371.08.10 1371.08.11 1371.08.12 1371.08.13 *1371.08.14
Goodyear 330 Conveyor Belt Material	*1371.08.08 *1371.08.14
Grease	*1371.08.10 *1371.08.11
IV Bag(s)	*1371.08.09
Kevlar Helmet	*1371.08.07 *1371.08.08 *1371.08.10 *1371.08.13 *1371.08.11 1371.08.12

Appendix B to
ENCLOSURE (5)

MATERIEL	TASK NUMBERS
Rigger's Tape (3/4" and/or 4")	*1371.08.09 *1371.08.14
Spray Adhesive	*1371.08.14
Squad Demolitions Kit, SL-3 complete	*1371.08.07 *1371.08.08 *1371.08.09 *1371.08.10 *1371.08.11 *1371.08.12 *1371.08.13 *1371.08.14
Waterproof tape (3/4" and/or 4")	*1371.08.08 *1371.08.10 *1371.08.11 1371.08.12 *1371.08.13

AMMUNITION, EXPLOSIVES, AND PYROTECHNICS

1. General. This table summarizes (by DODIC and Nomenclature) the ammunition, explosives, and/or pyrotechnics required to properly train all ITSs associated with this OccFld.

2. Format. Beneath each type of ammunition, the following information is contained in columns along with any pertinent comments:

a. TASK. A listing of all ITS tasks requiring that type of ammunition for proper execution.

b. INITIAL PROFICIENCY. The number of rounds required to support the initial proficiency training of the corresponding task.

c. PER ITERATION. The number of rounds required to support one iteration of the task.

d. ANNUAL SUSTAINMENT. The number of rounds required to maintain proficiency in the task on an annual basis. This is determined by dividing the "sustainment period" into 12 months and multiplying the result by the "per iteration" factor.

TASK	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
DODIC: AX14 NOMENCLATURE: 12 GAGE PRIMERS			
1371.02.22	0.000 EA	4.000 EA	16.000 EA
1371.08.07	2.000 EA	2.000 EA	2.000 EA
1371.08.08	2.000 EA	2.000 EA	2.000 EA
1371.08.09	2.000 EA	2.000 EA	2.000 EA
1371.08.10	2.000 EA	2.000 EA	2.000 EA
1371.08.11	2.000 EA	2.000 EA	2.000 EA
1371.08.12	2.000 EA	2.000 EA	2.000 EA
1371.08.13	2.000 EA	2.000 EA	2.000 EA
DODIC: G930 NOMENCLATURE: GRENADE, HAND, SMOKE, HC, M8			
1371.03.06	0.000 EA	1.000 EA	2.000 EA
1371.03.09	0.000 EA	1.000 EA	1.000 EA
DODIC: G940 NOMENCLATURE: GRENADE, HAND, SMOKE, GREEN			
1371.02.17	0.200 EA	1.000 EA	4.000 EA
1371.03.06	0.070 EA	1.000 EA	2.000 EA
NOTE: 2 per class			
1371.03.09	0.000 EA	1.000 EA	1.000 EA

TASK	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
DODIC: G945 NOMENCLATURE: GRENADE, HAND, SMOKE, YELLOW			
1371.02.17	0.200 EA	1.000 EA	4.000 EA
1371.03.06	0.070 EA	1.000 EA	2.000 EA
NOTE: 2 per class			
1371.03.09	0.000 EA	1.000 EA	1.000 EA
DODIC: J143 NOMENCLATURE: RKT MOTOR, 5" F/M913 & M914			
1302.01.22	1.000 EA	1.000 EA	2.000 EA
NOTE: 1 per class			
1371.02.18	1.000 EA	1.000 EA	4.000 EA
DODIC: K002 NOMENCLATURE: ACTIVATOR F/AT MINE (K230/231)			
1371.03.09	1.000 EA	1.000 EA	1.000 EA
DODIC: K051 NOMENCLATURE: FUZE, MINE, PRACT, (K230/231)			
1371.03.09	1.000 EA	1.000 EA	1.000 EA
DODIC: K143 NOMENCLATURE: MINE, APERS, M18A1, W/ACCES			
1371.03.09	0.070 EA	1.000 EA	1.000 EA
NOTE: 2 per class			
DODIC: K180 NOMENCLATURE: MINE, AT, HEAVY, M15			
1371.03.09	0.034 EA	1.000 EA	1.000 EA
NOTE: 1 per class			
DODIC: K181 NOMENCLATURE: MINE, AT, HEAVY, M21			
1371.03.09	0.034 EA	1.000 EA	1.000 EA
NOTE: 1 per class			
DODIC: K231 NOMENCLATURE: MINE, PRACTICE, AT, HEAVY, M20			
1371.03.09	1.000 EA	1.000 EA	1.000 EA
DODIC: L495 NOMENCLATURE: FLARE, SURFACE, TRIP, M49A1			
1371.02.17	0.200 EA	1.000 EA	4.000 EA
1371.03.06	0.100 EA	1.000 EA	2.000 EA
NOTE: 3 per class			
1371.03.09	0.000 EA	1.000 EA	1.000 EA

TASK	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
DODIC: L594 NOMENCLATURE: SIMULATOR, PROJ GROUND BURST			
1371.02.17	0.334 EA	1.000 EA	4.000 EA
1371.03.06	0.000 EA	1.000 EA	2.000 EA
1371.03.09	0.000 EA	1.000 EA	1.000 EA
DODIC: L598 NOMENCLATURE: SIMULATOR, FLASH, BOOBYTRAP			
1371.02.17	0.334 EA	1.000 EA	4.000 EA
1371.03.06	0.170 EA	1.000 EA	2.000 EA
NOTE: 5 per class			
1371.03.09	0.000 EA	1.000 EA	1.000 EA
DODIC: M023 NOMENCLATURE: CHG, DEMO, 1 1/4 LB BLOCK C-41			
1371.02.17	0.000 EA	4.000 EA	16.000 EA
1371.08.11	6.000 EA	6.000 EA	6.000 EA
DODIC: M028 NOMENCLATURE: DEMO KIT, BANGALORE TORPEDO			
1302.09.04	0.100 EA	1.000 EA	2.000 EA
NOTE: 1 kit per class			
1371.02.17	0.000 EA	0.100 EA	0.400 EA
1371.02.19	0.100 EA	0.250 EA	1.000 EA
NOTE: 1 section per class			
DODIC: M030 NOMENCLATURE: CHG, DEMO, 1/4 LB BLOCK TNT			
1302.09.04	2.000 EA	1.000 EA	2.000 EA
NOTE: 2 per demonstration			
1371.02.17	0.500 EA	2.000 EA	8.000 EA
DODIC: M032 NOMENCLATURE: CHG, DEMO, 1-LB BLOCK TNT			
1302.02.04	1.000 EA	4.000 EA	4.000 EA
1302.09.04	2.000 EA	5.000 EA	10.000 EA
NOTE: 12 per class			
1371.02.17	0.000 EA	5.000 EA	20.000 EA
1371.02.19	2.333 EA	2.000 EA	8.000 EA
1371.03.05	0.000 EA	2.000 EA	4.000 EA
DODIC: M039 NOMENCLATURE: CHG, DEMO, CRATERING, 40 LB			
1302.02.04	0.085 EA	4.000 EA	4.000 EA
NOTE: 1 per class			
1371.02.19	0.034 EA	1.000 EA	4.000 EA
1371.03.05	0.000 EA	1.000 EA	2.000 EA

TASK	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
DODIC: M130 NOMENCLATURE: CAP, BLASTING, ELEC			
1302.02.04	2.000 EA	2.000 EA	2.000 EA
1302.09.04	2.300 EA	30.000 EA	60.000 EA
NOTE: 1 per demonstration			
1302.09.05	0.000 EA	14.000 EA	28.000 EA
1371.02.17	0.500 EA	2.000 EA	8.000 EA
NOTE: 15 per class			
1371.02.21	0.500 EA	14.000 EA	56.000 EA
NOTE: Number of blasting caps required for this task is based on quantities of explosive allotted. Each system should be dual primed using 2 caps per type of explosive charge.			
1371.02.22	0.500 EA	10.000 EA	40.000 EA
NOTE: 15 per class			
1371.02.23	0.000 EA	2.000 EA	2.000 EA
1371.03.05	0.000 EA	8.000 EA	16.000 EA
1371.03.09	0.100 EA	1.000 EA	1.000 EA
NOTE: 3 per class			
1371.08.07	1.000 EA	1.000 EA	1.000 EA
1371.08.08	2.000 EA	2.000 EA	2.000 EA
1371.08.10	2.000 EA	2.000 EA	2.000 EA
1371.08.11	2.000 EA	2.000 EA	2.000 EA
1371.08.12	2.000 EA	2.000 EA	2.000 EA
1371.08.13	2.000 EA	2.000 EA	2.000 EA
DODIC: M131 NOMENCLATURE: CAP, BLASTING, NON-ELEC			
1302.09.04	4.300 EA	30.000 EA	60.000 EA
NOTE: 3 per demonstration			
1302.09.05	0.000 EA	14.000 EA	28.000 EA
1371.02.17	0.500 EA	11.000 EA	44.000 EA
NOTE: 15 per class			
1371.02.19	2.100 EA	2.000 EA	8.000 EA
NOTE: *This item may be substituted for M130. Number of blasting caps required for this task is based on quantities of explosive allotted. Each system should be dual primed using 2 caps per type of explosive charge.			
1371.02.21	0.500 EA	14.000 EA	56.000 EA
NOTE: *This item may be substituted for M130. Number of blasting caps required for this task is based on quantities of explosive allotted. Each system should be dual primed using 2 caps per type of explosive charge.			
1371.02.22	0.500 EA	10.000 EA	40.000 EA
NOTE: 15 per class			

TASK	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
1371.02.23	0.000 EA	2.000 EA	2.000 EA
NOTE: *This item may be substituted for M130.			
1371.03.05	0.000 EA	8.000 EA	16.000 EA
1371.08.07	1.000 EA	1.000 EA	1.000 EA
NOTE: *May be substituted for an electrical priming system.			
1371.08.08	2.000 EA	2.000 EA	2.000 EA
NOTE: *May be substituted for an electrical priming system.			
1371.08.10	2.000 EA	2.000 EA	2.000 EA
NOTE: *These items may be substituted for M130.			
1371.08.11	2.000 EA	2.000 EA	2.000 EA
NOTE: *These items may be substituted for M130.			
1371.08.12	2.000 EA	2.000 EA	2.000 EA
NOTE: *These items may be substituted for M130.			
1371.08.13	2.000 EA	2.000 EA	2.000 EA
NOTE: *These items may be substituted for M130.			
DODIC: M327 NOMENCLATURE: BASE COUPLING FIRING DEVICE			
1371.03.06	1.000 EA	0.000 EA	0.000 EA
DODIC: M420 NOMENCLATURE: CHG, DEMO, SHAPED, 15 LB			
1302.09.04	0.085 EA	1.000 EA	2.000 EA
NOTE: 1 per class			
1371.02.19	0.034 EA	1.000 EA	4.000 EA
NOTE: 1 per class			
1371.03.05	0.000 EA	1.000 EA	2.000 EA
DODIC: M421 NOMENCLATURE: CHG, DEMO, SHAPED, 40 LB			
1371.03.05	0.000 EA	1.000 EA	2.000 EA
DODIC: M456 NOMENCLATURE: DETONATING CORD			
1302.02.04	2.500 FT	100.000 FT	100.000 FT
NOTE: 30ft per class			
1302.09.04	85.000 FT	1.000 FT	2.000 FT
NOTE: 500 ft per demonstration			
1302.09.05	0.000 FT	500.000 FT	1000.000 FT
1371.02.19	10.000 FT	50.000 FT	200.000 FT
1371.02.21	20.000 FT	250.000 FT	1000.000 FT
1371.03.05	0.000 FT	50.000 FT	100.000 FT
1371.08.07	5.000 FT	5.000 FT	5.000 FT

TASK	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
1371.08.08	5.000 FT	5.000 FT	5.000 FT
1371.08.09	12.000 FT	12.000 FT	12.000 FT
1371.08.10	96.000 FT	96.000 FT	96.000 FT
NOTE: *Amount of Detonating Cord is dependent upon the target.			
1371.08.11	32.000 FT	32.000 FT	32.000 FT
1371.08.12	18.000 FT	18.000 FT	18.000 FT
1371.08.13	33.000 FT	33.000 FT	33.000 FT
DODIC: M591 NOMENCLATURE: DYNAMITE, MILITARY			
1302.09.04	1.700 EA	1.000 EA	2.000 EA
NOTE: 20 per class			
1371.02.19	0.334 EA	5.000 EA	20.000 EA
1371.03.05	0.000 EA	5.000 EA	10.000 EA
DODIC: M627 NOMENCLATURE: FIRING DEVICE, DEMO, M5			
1371.03.09	1.000 EA	1.000 EA	1.000 EA
DODIC: M670 NOMENCLATURE: FUZE, BLASTING, TIME			
1302.02.04	13.000 FT	50.000 FT	50.000 FT
1302.09.04	40.000 FT	150.000 FT	300.000 FT
NOTE: 200 ft per class			
1302.09.05	0.000 FT	50.000 FT	100.000 FT
1371.02.19	20.000 FT	50.000 FT	200.000 FT
NOTE: Quantity of time fuse will vary depending on range target location and safety bunker.			
1371.02.21	5.000 FT	50.000 FT	200.000 FT
NOTE: Quantity of time fuse will vary depending on range target location and safety bunker.			
1371.02.22	5.000 FT	50.000 FT	200.000 FT
1371.02.23	0.000 FT	12.000 FT	12.000 FT
NOTE: Quantity of time fuse will vary depending on range target location and safety bunker.			
1371.03.05	0.000 FT	50.000 FT	100.000 FT
1371.08.07	6.000 FT	6.000 FT	6.000 FT
NOTE: *Quantity of time fuse will vary depending on range target location and safety bunker.			
1371.08.08	12.000 FT	12.000 FT	12.000 FT
NOTE: Quantity of Time Fuse will vary depending on range target location and safety bunker.			
1371.08.10	12.000 FT	12.000 FT	12.000 FT
NOTE: *Quantity of Time Fuse will vary depending on range target location and safety bunker.			

TASK	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
1371.08.11	12.000 FT	12.000 FT	12.000 FT
NOTE: *Quantity of Time Fuse will vary depending on range target location and safety bunker.			
1371.08.12	12.000 FT	12.000 FT	12.000 FT
NOTE: *Quantity of Time Fuse will vary depending on range target location and safety bunker.			
1371.08.13	12.000 FT	12.000 FT	12.000 FT
NOTE: *Quantity of Time Fuse will vary depending on range target location and safety bunker.			
DODIC: M757 NOMENCLATURE: CHG, DEMO, M183 W/ACCESSORIES			
1302.09.04	0.300 EA	1.000 EA	2.000 EA
NOTE: 1.5 per class			
1302.09.05	0.000 EA	1.000 EA	2.000 EA
1371.02.19	0.100 EA	2.000 EA	8.000 EA
NOTE: 2.5 per class			
1371.02.21	0.034 EA	1.000 EA	4.000 EA
1371.02.22	0.034 EA	0.000 EA	0.000 EA
NOTE: 1 per class			
1371.02.23	0.000 EA	1.000 EA	1.000 EA
1371.03.09	0.034 EA	1.000 EA	1.000 EA
NOTE: 1 per class			
DODIC: M766 NOMENCLATURE: IGNITOR, TIME, BLASTING, M60			
1302.02.04	3.000 EA	3.000 EA	3.000 EA
1302.09.04	4.700 EA	36.000 EA	72.000 EA
NOTE: 36 per class			
1302.09.05	0.000 EA	18.000 EA	36.000 EA
1371.02.19	3.100 EA	4.000 EA	16.000 EA
NOTE: *This item may be substituted for M130.			
1371.02.21	0.667 EA	15.000 EA	60.000 EA
NOTE: *This item may be substituted for M130.			
1371.02.22	0.667 EA	11.000 EA	44.000 EA
NOTE: 20 per class			
1371.02.23	0.000 EA	2.000 EA	2.000 EA
NOTE: *This item may be substituted for M130.			
1371.03.05	0.000 EA	10.000 EA	20.000 EA
1371.08.07	6.000 EA	6.000 EA	6.000 EA
NOTE: *May be substituted for an electrical priming system.			
1371.08.08	2.000 EA	2.000 EA	2.000 EA

TASK	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
NOTE: *May be substituted for an electrical priming system.			
1371.08.10	2.000 EA	2.000 EA	2.000 EA
NOTE: *These items may be substituted for M130.			
1371.08.11	2.000 EA	2.000 EA	2.000 EA
NOTE: *These items may be substituted for M130.			
1371.08.12	2.000 EA	2.000 EA	2.000 EA
NOTE: *These items may be substituted for M130.			
1371.08.13	2.000 EA	2.000 EA	2.000 EA
NOTE: *These items may be substituted for M130.			
DODIC: M913 NOMENCLATURE: CHG, DEMO, LINEAR, HE, M58A2			
1302.01.22	0.000 EA	1.000 EA	2.000 EA
1371.02.18	0.000 EA	1.000 EA	4.000 EA
DODIC: M914 NOMENCLATURE: CHG, DEMO, LINEAR, INERT, M68			
1302.01.22	0.334 EA	1.000 EA	2.000 EA
NOTE: 1 per class			
1371.02.18	0.334 EA	0.334 EA	1.336 EA
DODIC: M982 NOMENCLATURE: CHG, DEMO EXPLOSIVE SHEET 19FT			
1302.09.04	0.334 FT	1.000 FT	2.000 FT
NOTE: 4 ft per class			
1371.02.22	0.250 FT	0.250 FT	1.000 FT
NOTE: 4 per class			
DODIC: ML03 NOMENCLATURE: FIRING DEVICE, DEMO, MP, M142			
1371.03.06	1.000 EA	2.000 EA	4.000 EA
1371.03.09	1.000 EA	1.000 EA	1.000 EA
DODIC: MM30 NOMENCLATURE: CHARGE, FLSC, 20GR, FT			
1302.09.04	0.334 EA	4.000 EA	8.000 EA
NOTE: 4 per class			
1371.02.22	0.250 EA	4.000 EA	16.000 EA
NOTE: 1 per class			
1371.08.11	3.000 EA	3.000 EA	3.000 EA
1371.08.12	2.000 EA	2.000 EA	2.000 EA

TASK	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
DODIC: MM44 NOMENCLATURE: CHARGE, FLSC, 75GR, FT			
1302.09.04	0.085 EA	1.000 EA	2.000 EA
NOTE: 1 per class			
1371.02.22	0.034 EA	1.000 EA	4.000 EA
NOTE: 1 per class			
DODIC: MM46 NOMENCLATURE: CHARGE, FLSC, 225GR, FT			
1302.09.04	0.085 EA	1.000 EA	2.000 EA
NOTE: 1 per class			
1371.02.22	0.034 EA	1.000 EA	4.000 EA
NOTE: 1 per class			
DODIC: MM47 NOMENCLATURE: CHARGE, FLSC, 400GR, FT			
1302.09.04	0.085 EA	1.000 EA	2.000 EA
NOTE: 1 per class			
1371.02.22	0.034 EA	1.000 EA	4.000 EA
NOTE: 1 per class			
DODIC: MM48 NOMENCLATURE: CHARGE, FLSC, 600GR, FT			
1302.09.04	0.085 EA	1.000 EA	2.000 EA
NOTE: 1 per class			
1371.02.22	0.034 EA	1.000 EA	4.000 EA
NOTE: 1 per class			
DODIC: MM56 NOMENCLATURE: NONEL DET, 175ms DLY, 100FT			
1302.09.04	0.085 EA	4.000 EA	8.000 EA
NOTE: 1 per class			
1371.02.22	0.034 EA	4.000 EA	16.000 EA
NOTE: 1 per class			
1371.08.07	1.000 EA	1.000 EA	1.000 EA
1371.08.08	1.000 EA	1.000 EA	1.000 EA
1371.08.09	1.000 EA	1.000 EA	1.000 EA
1371.08.10	1.000 EA	1.000 EA	1.000 EA
1371.08.11	1.000 EA	1.000 EA	1.000 EA
1371.08.12	1.000 EA	1.000 EA	1.000 EA
1371.08.13	1.000 EA	1.000 EA	1.000 EA

DISTANCE LEARNING PRODUCTS

1. General. This appendix includes a list of all currently available or planned distance learning (DL) products, including Marine Corps Institute (MCI) publications, designed to provide training related to any task in this OccFld.

2. Format. The columns are as follows:

a. DISTANCE LEARNING PRODUCTS. This column summarizes all DL products assigned to at least one ITS task in this OccFld.

b. TASK NUMBERS. A listing of all ITS tasks associated with the corresponding DL product.

DISTANCE LEARNING PRODUCTS	TASK NUMBERS
MCI (SPD) 1520, Company Commander's Handbook	1302.05.01
MCI 0335, Infantry Patrolling	1371.02.11
MCI 034, Landmine Warfare, Demolitions, and Breaching Operations	1371.02.16 1371.02.17 1371.02.19 1371.02.20 1371.03.08 1371.03.09 1371.03.10
MCI 0381, Land Navigation	1371.02.10 1371.02.11
MCI 0410, MIMMS (AIS)	1341.01.01 1345.06.01 1371.05.01 1390.05.01 1390.05.08
MCI 0414, Ground Maintenance Procedures for Supervisors	1302.06.01 1302.06.02 1310.01.01 1310.01.03 1310.01.10 1310.01.11 1349.01.01 1349.01.03 1361.04.01 1361.04.02 1361.05.02 1371.05.02 1371.05.03 1390.05.01 1390.05.08
MCI 1328, Engineer Equipment Chief	1349.01.02
MCI 1332, Metal Working and Welding Operations	1316.01.01 1316.01.05 1316.01.06 1316.02.01 1316.02.04 1316.06.02 1316.06.03 1316.06.08
MCI 1344, Construction Print Reading	1361.01.01 1361.01.02 1361.01.03 1361.01.04
MCI 1373, Basic Engineering: Combat Operations	1371.02.10 1371.02.11 1371.02.16 1371.02.17 1371.02.19 1371.02.20
MCI 1391, Bulk Fuel Specialist	1391.01.07 1391.04.09

PERFORMANCE SUPPORT TOOLS

DOES NOT APPLY TO THIS ORDER.

INDIVIDUAL TRAINING STANDARDS

1. General. This enclosure contains all of the ITSs for this OccFld, grouped by MOS. Each MOS is contained in a separate Appendix to Enclosure (6).

2. Format. For each ITS, the following elements of information are provided:

a. TASK. The task describes a specific and necessary behavior expected of a Marine in a particular MOS or billet. It is a clearly stated, performance-oriented action requiring a learned skill. Skills that "make" a Marine or qualify that Marine for the appropriate MOS are designated as "CORE." Those advanced skills that are mission, grade, or billet specific are designated as "CORE PLUS."

b. CONDITION(S). This portion of the ITS describes the equipment, manuals, assistance/supervision, special physical demands, environmental conditions, and location affecting a Marine's performance of the task under real-world circumstances.

c. STANDARD(S). This portion of the ITS describes the level of proficiency to which the individual must perform the task.

d. PERFORMANCE STEPS. Collectively, the performance steps represent the logical sequence of actions required of the Marine to perform the task to standard. These actions are typically detailed in the references.

e. INITIAL TRAINING SETTING. All ITSs are assigned an initial training setting that includes a specific location for initial instruction [Functional Learning Center (FLC) or Managed On-The-Job Training (MOJT)], a sustainment factor (number of months between evaluation or retraining to maintain the proficiency required by the standard), and a "Required By" grade (the lowest grade at which task proficiency is required).

f. REFERENCE(S). References are doctrinal publications, technical manuals, and other publications upon which the ITS and its performance steps are based. They should be readily available and provide detail to the procedures that are only summarized in the performance steps.

g. TRAINING MATERIEL (Optional). Training materiel includes all training devices, simulators, aids, equipment, and materials [except ammunition, distance learning (DL) products, and performance support tools (PST)] required or recommended to properly train the task under the specified conditions and to the specified standard. Mandatory items are preceded by an asterisk(*).

h. AMMUNITION (Optional). This table, if present, depicts the ammunition, explosives, and/or pyrotechnics required for proper training of the ITS.

i. DISTANCE LEARNING PRODUCT(S) (Optional). This section includes a list of any currently available or planned DL products designed to provide training related to this task.

j. PERFORMANCE SUPPORT TOOL(S) (Optional). This section includes a list of any currently available or planned PSTs designed to provide training related to this task.

k. ADMINISTRATIVE INSTRUCTIONS (Optional). Administrative instructions provide the trainer/instructor with special required or recommended circumstances, including safety

precautions, relating to the training or execution of the task. These instructions may also clarify the meaning of the task.

MOS 1302, ENGINEER OFFICER

DUTY AREA 01 - MOBILITY

TASK: 1302.01.01 (CORE) PERFORM MOBILITY ANALYSIS

CONDITION(S): Given a tactical situation, a map, three courses of action, and references.

STANDARD(S): To identify factors affecting the momentum of maneuver elements on the battlefield due to terrain, obstacles, and weather.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct Intelligence Preparation of the Battlefield (IPB).

3. Identify intelligence requirements to the S-2/G-2.

4. Determine the need for engineer reconnaissance.

5. Prepare an engineer estimate of supportability.

6. Identify the maneuver units that will require mobility support.

7. Identify quantity and prioritize engineer mobility tasks.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 34-130, Intelligence Preparation of the Battlefield

2. FM 5-100, Engineer Combat Operations

3. FM 5-101, Mobility

4. FM 5-170, Engineer Reconnaissance

5. FM 90-13-1, Combined Arms Breaching Operations

6. FMFM 13, MAGTF Engineer Operations

7. FMFM 6, Ground Combat Operations

TASK: 1302.01.02 (CORE) ADVISE COMMANDER ON MOBILITY OPERATIONS

CONDITION(S): Given a tactical situation, a map, concept of operations, commander's intent, task organization of equipment and personnel, and the references.

STANDARD(S): To identify the best use of engineer personnel and equipment consistent with the mobility analysis, commander's intent, and concept of operations per the references.

PERFORMANCE STEPS:

1. Brief commander on engineer intelligence requirements.

2. Brief commander on modified combined obstacle overlay.

3. Brief commander on effects of terrain and weather on ability to maneuver.

4. Brief commander on engineer estimates of supportability.

5. Identify logistical shortfalls to S-4/G-4.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 5-101, Mobility

2. FMFM 13, MAGTF Engineer Operations

3. FMFM 13-7, MAGTF Breaching Operations

TASK: 1302.01.03 (CORE) PLAN CONSTRUCTION OF A FORWARD OPERATING BASE (AIRFIELD/LANDING ZONE)

CONDITION(S): Given a tactical situation, a map, commander's intent, concept of operations, airfield configuration, personnel and equipment, and references.

STANDARD(S): To meet requirements of the commander's intent and concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct airfield/landing zone site reconnaissance.

3. Advise commander on site selection.

4. Develop a construction plan.

5. Determine task organization of equipment and personnel.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Capt

REFERENCE(S):

1. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

2. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

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TASK: 1302.01.04 (CORE PLUS) SUPERVISE CONSTRUCTION OF FORWARD OPERATING BASE (AIRFIELD/LANDING ZONE)

CONDITION(S): Given a tactical situation, operations order, commander's intent, airfield configuration, personnel, equipment, construction plan, and references.

STANDARD(S): To meet requirements of the construction plan per the references.

PERFORMANCE STEPS:

1. Analyze the construction plan and directive to determine the exact requirements.

2. Task required personnel and equipment.

3. Develop construction management tool.

4. Issue the order.

5. Coordinate required logistical support.

6. Enforce quality control of earthwork and matting emplacement.

7. Update construction schedule to maximize productivity.

8. Submit appropriate engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-412, Project Management

2. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

3. FM 5-434, Earthmoving Operations

4. MCRP 3-17A, Engineer Field Data

TASK: 1302.01.05 (CORE PLUS) SUPERVISE REPAIR OF FORWARD OPERATING BASE (AIRFIELD/LANDING ZONE)

CONDITION(S): Given a tactical situation, a forward operating base to be repaired, an operations order, commander's intent, personnel, equipment, and references.

STANDARD(S): To restore the forward operating base to optimum operational capability per the references.

PERFORMANCE STEPS:

1. Determine the type and extent of repair required.

2. Determine the task organization of personnel and equipment.

3. Determine material required to complete the repair.

4. Issue the repair order.

5. Inspect completed repair.

6. Submit appropriate engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. Expeditionary Airfield Configuration Manual

2. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

3. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

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TASK: 1302.01.06 (CORE PLUS) SUPERVISE RAPID RUNWAY REPAIR

CONDITION(S): Given a tactical situation, an operations order, commander's intent, an airfield/landing zone requiring repair, personnel and equipment, and references.

STANDARD(S): To restore the airfield to minimum operational capability per the references.

PERFORMANCE STEPS:

1. Provide recommendations to the Survival Recovery Staff for the task organization of personnel and equipment.

2. Determine the appropriate Foreign Object Debris (FOD) cover requirements.

3. Calculate the material requirements for crater repair based on crater size.

4. Calculate the material requirements for spall repair based on spall size.

5. Identify appropriate dispersal areas for equipment, materials, and personnel in the event of follow-on attacks.

6. Submit appropriate engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. Navy/Marine Corps Runway Crater Repair (Interim Handbook), Navy Civil Engineering Laboratory, Port Hueneme

2. Rapid Runway Repair Concept of Operations, Air Force Engineering and Service Center, Tyndall AFB, FL dtd September 1988

3. Standard NATO Agreement 2929

4. FC 5-104-1, Airfield Damage Repair

5. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

6. MCRP 3-17A, Engineer Field Data

TASK: 1302.01.07 (CORE) PLAN ENGINEER ASPECTS OF RIVER CROSSING OPERATION

CONDITION(S): Given a tactical situation, a map, an operations order, commander's intent, personnel and equipment, and references.

STANDARD(S): To meet requirements of the commander's intent per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available, time space, and logistics (METT-TSL).

2. Conduct Intelligence Preparation of the Battlefield (IPB).

3. Identify Requests for Information (RFI) to S-2/G-2.

4. Plan/Conduct reconnaissance to determine potential river crossing sites, staging areas, ingress/egress routes, regulating points, and river profile.

5. Determine support requirements, to include fire support security and logistics.

6. Coordinate with supported unit commanders.

7. Complete an overlay with engineer related tactical control measures.

8. Prepare order/appropriate appendix to operations order.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 34-130, Intelligence Preparation of the Battlefield

2. FM 5-100, Engineer Combat Operations

3. FM 5-170, Engineer Reconnaissance

4. FM 90-13-1, Combined Arms Breaching Operations

5. FMFM 13, MAGTF Engineer Operations

6. FMFM 6, Ground Combat Operations

7. MCRP 3-17B, Engineer Forms and Reports

8. MCWP 3-17.1, River Crossing Operations

9. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.01.08 (CORE PLUS) SUPERVISE ENGINEER ASPECTS OF RIVER CROSSING OPERATIONS

CONDITION(S): Given a tactical situation, operations order with river crossing annex, commander's intent, and references.

STANDARD(S): To support the commander's intent and the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze order to determine requirements.

2. Task organize personnel and equipment.

3. Coordinate with supported unit commander.

4. Issue orders to engineer personnel.

5. Establish tactical control measures.

6. Coordinate required logistics support.

7. Conduct operations per breaching fundamentals.

8. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FMFM 6, Ground Combat Operations

2. MCRP 3-17A, Engineer Field Data

3. MCRP 3-17B, Engineer Forms and Reports

4. MCWP 3-17.1, River Crossing Operations

5. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.01.09 (CORE) DESIGN A RIBBON BRIDGE/RAFT

CONDITION(S): Given a tactical situation, a map, an operations order, task organization of equipment and personnel, and references.

STANDARD(S): To ensure design standards are met to support the concept of operation's traffic per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct reconnaissance of ribbon bridge/raft site.

3. Determine site condition and layout.

4. Determine logistical support requirements for ribbon bridge construction.

5. Determine engineer estimate of supportability.

6. Determine configuration of the ribbon bridge/raft to be utilized.

7. Review the ribbon bridge/raft design.

8. Establish safety plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations

2. MCRP 3-17A, Engineer Field Data

3. MCWP 3-17.1, River Crossing Operations

4. TM 5-5420-209-12, Operator's and Organizational Manual, Improved Floating Bridge (Ribbon Bridge)

TASK: 1302.01.10 (CORE) DESIGN A MEDIUM GIRDER BRIDGE (MGB)

CONDITION(S): Given a tactical situation, a map, an operations order, commander's intent, personnel and equipment, military load classification requirements, and references.

STANDARD(S): To meet or exceed the military load classification required to support the concept of operation's traffic per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct a reconnaissance of the bridge site.

3. Determine configuration of MGB to be utilized.

4. Determine site condition and layout.

5. Develop engineer estimate of supportability.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCRP 3-17A, Engineer Field Data

2. TM 08676A-10/1-1, Operator's Manual, MGB

3. TM 5-5420-212-12, Medium Girder Bridge

4. TM 5-5420-212-12-1, Link Reinforcement Set

TASK: 1302.01.11 (CORE PLUS) SUPERVISE CONSTRUCTION OF A MEDIUM GIRDER BRIDGE

CONDITION(S): Given a tactical situation, a map, an operations order, a bridge site, task organization of equipment and personnel, and references.

STANDARD(S): To ensure design standards are met to support the concept of operation's traffic per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Determine size of required assembly area.

3. Determine site condition and layout.

4. Determine logistical support requirements for MGB construction.

5. Review the MGB design.

6. Establish a safety plan.

7. Set up vehicle for launch/retraction.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCRP 3-17A, Engineer Field Data
2. TM 08676A-10/1-1, Operator's Manual, MGB
3. TM 5-5420-212-12, Medium Girder Bridge
4. TM 5-5420-212-12-1, Link Reinforcement Set

TASK: 1302.01.12 (CORE) CLASSIFY A BRIDGE

CONDITION(S): Given a tactical situation, a map, a bridge, and references.

STANDARD(S): To determine the military load classification with consideration to width and overhead clearance restrictions.

PERFORMANCE STEPS:

1. Receive mission order including vehicle requirements.
2. Coordinate support requirements with supported units.
3. Prepare bridge reconnaissance team and all applicable forms and reports.
4. Conduct bridge reconnaissance.
5. Make appropriate calculations.
6. Determine bridge restrictions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-446, Military Non-Standard Fixed Bridges
2. GTA 5-7-13, Bridge Classification Booklet
3. MCRP 3-17A, Engineer Field Data
4. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.01.13 (CORE PLUS) DESIGN A NONSTANDARD BRIDGE

CONDITION(S): Given a tactical situation, a map, an operations order, commander's intent, a gap, military load requirements, and references.

STANDARD(S): To meet or exceed the military load classification required to support the concept of operation's traffic per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space and logistics (METT-TSL).
2. Conduct site reconnaissance.
3. Determine the bridge type.
4. Determine superstructure type.
5. Determine substructure type.
6. Determine bill of materials.
7. Coordinate support requirements.
8. Illustrate final design.
9. Submit design.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Capt

REFERENCE(S):

1. FM 5-446, Military Non-Standard Fixed Bridges
2. MCRP 3-17A, Engineer Field Data

TASK: 1302.01.14 (CORE PLUS) SUPERVISE CONSTRUCTION OF A NONSTANDARD BRIDGE

CONDITION(S): Given a tactical situation, a map, an operations order, task organization of equipment and personnel, bridge construction design, and references.

STANDARD(S): To ensure design standards are met to support the concept of operation's traffic per the references.

PERFORMANCE STEPS:

1. Review the nonstandard bridge design.
2. Develop construction management tool.
3. Determine logistical support requirements.
4. Issue the order.
5. Establish site layout.
6. Enforce construction techniques.
7. Update schedule to maximize productivity.

8. Submit required reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-446, Military Non-Standard Fixed Bridges
2. MCRP 3-17A, Engineer Field Data
3. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.01.15 (CORE PLUS) PLAN A PIONEER ROAD

CONDITION(S): Given a tactical situation, a map, an operations order, task organization of equipment and personnel, and references.

STANDARD(S): To meet or exceed traffic support requirements in the concept of operations per the references.

PERFORMANCE STEPS:

1. Conduct reconnaissance of anticipated road.
2. Determine number and type of vehicles to use the road.
3. Recommend road to commander.
4. Determine logistics requirements to support construction.
5. Prepare order to construct pioneer road.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations
2. FM 5-434, Earthmoving Operations
3. FMFM 13, MAGTF Engineer Operations
4. MCRP 3-17A, Engineer Field Data

TASK: 1302.01.16 (CORE PLUS) SUPERVISE CONSTRUCTION OF A PIONEER ROAD

CONDITION(S): Given a tactical situation, an operations order, commander’s intent, task organization of personnel and equipment, plan for pioneer road, and references.

STANDARD(S): To ensure design standards are met to support the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze plan to determine construction requirements.

2. Task required personnel and equipment.

3. Submit appropriate engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-335, Drainage

2. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

3. FM 5-434, Earthmoving Operations

4. FM 5-530, Materials Testing

5. MCRP 3-17A, Engineer Field Data

TASK: 1302.01.17 (CORE PLUS) SUPERVISE REPAIR OF A PIONEER ROAD

CONDITION(S): Given a tactical situation, a section of road to be repaired, a frag order, task organized personnel and equipment, and references.

STANDARD(S): To restore the road to minimum operational capability per the references.

PERFORMANCE STEPS:

1. Conduct route reconnaissance.

2. Determine type and extent of repairs required.

3. Determine task organization of personnel and equipment.

4. Determine material required to complete repairs.

5. Issue repair orders.

6. Inspect repairs.

7. Submit appropriate engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

2. FM 5-434, Earthmoving Operations

3. MCRP 3-17A, Engineer Field Data

TASK: 1302.01.18 (CORE PLUS) DESIGN A MAIN SUPPLY ROUTE

CONDITION(S): Given a tactical situation, a map, an operations order, task organization of personnel and equipment, construction standards, and the reference.

STANDARD(S): To meet or exceed the military load classification required to support the concept of operations traffic per the references.

PERFORMANCE STEPS:

1. Determine design life of the road.

2. Determine number and type of vehicles to use the road during its design life.

3. Design the subgrade.

4. Design the base.

5. Determine compaction requirements for each layer.

6. Illustrate the final design.

7. Prepare the order.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Capt

REFERENCE(S):

1. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

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TASK: 1302.01.19 (CORE PLUS) SUPERVISE CONSTRUCTION OF A MAIN SUPPLY ROUTE

CONDITION(S): Given a tactical situation, a map, an operations order, task organization of equipment and personnel, and references.

STANDARD(S): To ensure construction design requirements are met to support the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze design to determine requirements.

2. TASK required personnel and equipment.

3. Develop construction management tool.

4. Issue the order.

5. Update construction schedule to maximize productivity.

6. Submit appropriate engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Capt

REFERENCE(S):

1. FM 5-412, Project Management

2. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

3. MCRP 3-17A, Engineer Field Data

4. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.01.20 (CORE PLUS) SUPERVISE REPAIR OF A MAIN SUPPLY ROUTE (MSR)

CONDITION(S): Given a tactical situation, a section of MSR to be repaired, a frag order, task organized equipment and personnel, and references.

STANDARD(S): To restore the MSR to optimal operational capability per the references.

PERFORMANCE STEPS:

1. Conduct route reconnaissance.

2. Determine type and extent of repairs required.

3. Determine task organization of personnel and equipment.

4. Determine material required to complete the repair.

5. Issue a repair order.

6. Inspect repairs.

7. Submit appropriate engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Capt

REFERENCE(S):

1. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

2. FMFM 13, MAGTF Engineer Operations

3. MCRP 3-17A, Engineer Field Data

4. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.01.21 (CORE) PLAN BREACHING OF COMPLEX OBSTACLE

CONDITION(S): Given a tactical situation, an operations order, a map, task organized personnel and equipment, commander's intent, and references.

STANDARD(S): To support the commander's intent and the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Identify possible bypasses.

3. Identify the type(s) of breaching operation (i.e., bypass, hasty, in-stride, deliberate, assault, or clandestine) and the number of lanes required to allow the passage of the ground combat element (GCE) and combat service support element (CSSE).

4. Identify and evaluate potential breach sites.

5. Identify Request for Information (RFI) to the S-2/G-2.

6. Determine type of explosive/nonexplosive breaching assets available.

7. Task organize engineer personnel and equipment within the assault breach force.

8. Determine proper sequencing of the breach force based on tactical situation.

9. Develop battle drills (individual/unit) to rehearse the breach of a complex obstacle.

10. Determine support requirements.

11. Plan, prioritize, and recommend fire support requirement.

12. Prepare appendix for the operations order.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 34-130, Intelligence Preparation of the Battlefield

2. FM 5-100, Engineer Combat Operations

3. FM 5-101, Mobility

4. FM 5-170, Engineer Reconnaissance

5. FM 90-13-1, Combined Arms Breaching Operations

6. FMFM 13, MAGTF Engineer Operations

7. FMFM 13-7, MAGTF Breaching Operations

8. FMFM 6, Ground Combat Operations

9. MCDP 1, Warfighting

10. MCDP 1-3, Tactics

TASK: 1302.01.22 (CORE PLUS) SUPERVISE BREACHING A COMPLEX OBSTACLE

CONDITION(S): Given a tactical situation, an operations order, a map, task organized personnel and equipment, commander's intent, and references.

STANDARD(S): To ensure the breach is executed per the mission order and the commander's intent per the references.

PERFORMANCE STEPS:

1. Identify requirements outlined in the breach plan.

2. Task organize and coordinate personnel and equipment.

3. Issue the breaching orders to unit leaders.

4. Plan and conduct breach rehearsals.

5. Conduct the breach per breaching fundamentals; suppress, obscure, secure, reduce, and reconstitute.

6. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 90-13-1, Combined Arms Breaching Operations

3. FMFM 13-7, MAGTF Breaching Operations

4. MCRP 3-17A, Engineer Field Data

5. TM 08982A-14&P/2B, Operator's Manual for MK 155 Mine Clearance System

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
J143	RKT MOTOR, 5" F/M913 & M914 1 per class	1.000 EA	1.000 EA	2.000 EA
M913	CHG, DEMO, LINEAR, HE, M58A2	0.000 EA	1.000 EA	2.000 EA
M914	CHG, DEMO, LINEAR, INERT, M68 1 per class	0.334 EA	1.000 EA	2.000 EA

TASK: 1302.01.23 (CORE PLUS) SUPERVISE CLEARING OF MINES AND BOOBY TRAPS

CONDITION(S): Given a tactical situation, information on possible mines and booby traps, an area of operations, and references.

STANDARD(S): To ensure that all mines and unexploded ordnance are cleared from the designated area per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Identify intelligence requirements to the S-2/G-2.

3. Conduct a site reconnaissance.

4. Task organize demolition teams.

5. Establish a systematic plan based on priority of occupation for clearing the area.

6. Issue the order.

7. Conduct rehearsals.

8. Proof route.

9. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 5-250, Explosives and Demolitions

3. MCRP 3-17A, Engineer Field Data

TASK: 1302.01.24 (CORE) PLAN ROUTE SWEEP OPERATIONS

CONDITION(S): Given a tactical situation, a route to be swept, map, task organized personnel and equipment, commander's intent, an operations order, and references.

STANDARD(S): To ensure sufficient mobility to support the concept of operations and the commander's intent per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Determine the most likely areas to be mined or booby trapped.

3. Identify common signs and markings that may be associated with the location of mines and booby traps.

4. Determine type and extent of mines/obstacles.

5. Determine task organization of personnel and equipment.

6. Determine materiel requirements.

7. Determine Explosive Ordnance Disposal (EOD) support.

8. Develop route sweep order.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 5-170, Engineer Reconnaissance

3. FMFM 13, MAGTF Engineer Operations

4. MCRP 3-17.2A, UXO Procedures

5. MCRP 3-17A, Engineer Field Data

6. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.01.25 (CORE PLUS) SUPERVISE ROUTE SWEEP OPERATIONS

CONDITION(S): Given a tactical situation, a route to be swept, route sweep order, map, TASK organized personnel and equipment, and references.

STANDARD(S): To ensure sufficient mobility to support the concept of operations and the commander's intent per the references.

PERFORMANCE STEPS:

1. Review the route sweep plan.

2. Ensure the employment concept is consistent with the tactical situation and the scheme of maneuver.

3. Issue the order.

4. Conduct rehearsals and immediate action drills.

5. Conduct detailed inspections.

6. Ensure all mines, boobytraps, obstacles, and unexploded ordnance are detected, marked, and cleared or proofed.

7. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 5-170, Engineer Reconnaissance

3. FMFM 13, MAGTF Engineer Operations

4. MCRP 3-17A, Engineer Field Data

5. MCRP 3-17B, Engineer Forms and Reports

DUTY AREA 02 - COUNTERMOBILITY

TASK: 1302.02.01 (CORE) PERFORM COUNTERMOBILITY ANALYSIS

CONDITION(S): Given a tactical situation, a map, courses of action, commander's intent, and references.

STANDARD(S): To identify factors affecting the momentum of maneuver elements per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).
2. Conduct intelligence preparation of the battlefield (IPB).
3. Identify Requests for Information (RFI) to the S-2/G-2.
4. Conduct engineer reconnaissance as required.
5. Prepare an engineer estimate of supportability.
6. Identify the maneuver units requiring countermobility support.
7. Identify and prioritize engineer countermobility tasks.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations
2. FM 34-130, Intelligence Preparation of the Battlefield
3. FM 5-100, Engineer Combat Operations
4. FM 5-102, Countermobility
5. FM 5-170, Engineer Reconnaissance
6. FM 90-7, Obstacles
7. FMFM 13, MAGTF Engineer Operations
8. FMFM 6, Ground Combat Operations
9. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.02.02 (CORE) ADVISE COMMANDER ON COUNTERMOBILITY OPERATIONS

CONDITION(S): Given a tactical situation, a map, concept of operations, commander's intent, task organization of personnel and equipment, and references.

STANDARD(S): To identify the best use of engineer personnel and equipment consistent with the countermobility analysis, commander's intent, and concept of operations per the references.

PERFORMANCE STEPS:

1. Brief commander on Requests for Information (RFI).

2. Brief commander on modified combined obstacle overlay.

3. Brief commander on recommended barrier/obstacle plan.

4. Brief commander on effects of terrain and weather on the enemy's ability to maneuver.

5. Brief commander on engineer estimates of supportability.

6. Identify logistical shortfalls to S-4/G-4.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 34-130, Intelligence Preparation of the Battlefield

3. FM 90-7, Obstacles

4. FMFM 13, MAGTF Engineer Operations

5. FMFM 3-1, Command and Staff Action

6. FMFM 6, Ground Combat Operations

7. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.02.03 (CORE PLUS) PREPARE A BARRIER PLAN

CONDITION(S): Given a tactical situation, a map, concept of operations, commander's intent, task organized personnel and equipment, and references.

STANDARD(S): To utilize engineer personnel and equipment consistent with the commander's intent and the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct intelligence preparation of the battlefield (IPB).

3. Identify Request for Information (RFI) to the G-2.

4. Provide guidance for location and intent of obstacle zones.

5. Identify logistics requirements to the G-4.

6. Identify fire support requirements to the G-3.

7. Prepare barrier plan appendix to operations order and overlay.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Capt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 34-130, Intelligence Preparation of the Battlefield

3. FM 5-250, Explosives and Demolitions

4. FM 90-7, Obstacles

5. FMFM 13, MAGTF Engineer Operations

6. FMFM 3-1, Command and Staff Action

7. FMFM 6, Ground Combat Operations

8. MCRP 3-17B, Engineer Forms and Reports

9. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.02.04 (CORE) PREPARE AN OBSTACLE PLAN

CONDITION(S): Given a tactical situation, an operations order, a map, commander's intent, and references.

STANDARD(S): To utilize engineer personnel and equipment consistent with the commander's intent and the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct intelligence preparation of the battlefield (IPB).

3. Identify Request for Information (RFI) to the S-2.

4. Provide guidance for location and intent of obstacles to the S-3.

5. Identify logistics requirements to S-4.

6. Identify and prioritize fire support requirements.

7. Prepare an obstacle plan appendix to operations order and overlay.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-100, Engineer Combat Operations

2. FM 5-102, Countermobility

3. FM 90-7, Obstacles

4. FMFM 13, MAGTF Engineer Operations

5. FMFM 3-1, Command and Staff Action

6. FMFM 6, Ground Combat Operations

7. MCDP 1, Warfighting

8. MCDP 1-3, Tactics

9. MCRP 3-17B, Engineer Forms and Reports

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
M032	CHG, DEMO, 1-LB BLOCK TNT	1.000 EA	4.000 EA	4.000 EA
M039	CHG, DEMO, CRATERING, 40 LB 1 per class	0.085 EA	4.000 EA	4.000 EA
M130	CAP, BLASTING, ELEC	2.000 EA	2.000 EA	2.000 EA
M456	DETONATING CORD 30ft per class	2.500 FT	100.000 FT	100.000 FT
M670	FUZE, BLASTING, TIME	13.000 FT	50.000 FT	50.000 FT
M766	IGNITOR, TIME, BLASTING, M60	3.000 EA	3.000 EA	3.000 EA

TASK: 1302.02.05 (CORE PLUS) SUPERVISE CONSTRUCTION OF AN OBSTACLE

CONDITION(S): Given a tactical situation, an operations order, an obstacle plan overlay, personnel, equipment, and references.

STANDARD(S): To meet the requirements of the obstacle plan per the references.

PERFORMANCE STEPS:

1. Analyze requirements outlined in the obstacle plan and conduct a site reconnaissance.

2. Task organize personnel and equipment.

3. Identify logistical requirements.

4. Coordinate security with supported maneuver elements as required.

5. Verify the obstacle is effective based on the principles of obstacle employment.

6. Monitor construction/installation of the obstacle.

7. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 5-102, Countermobility

3. MCRP 3-17A, Engineer Field Data

ADMINISTRATIVE INSTRUCTIONS: The obstacle may be a simple obstacle, either explosive or nonexplosive. Similarly, the obstacle may be a complex obstacle, composed of more than one type of obstacle.

DUTY AREA 03 - SURVIVABILITY

TASK: 1302.03.01 (CORE) PERFORM SURVIVABILITY ANALYSIS

CONDITION(S): Given a tactical situation, a map, courses of action, commander's intent, and references.

STANDARD(S): To identify factors affecting the commander's ability to protect personnel, supplies, and equipment in the battlespace due to terrain, weather, and enemy activity per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).
2. Identify Request for Information (RFI) to the S-2/G-2.
3. Conduct engineer reconnaissance as required.
4. Prepare engineer estimate of supportability.
5. Identify and prioritize survivability tasks.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations
2. FM 34-130, Intelligence Preparation of the Battlefield
3. FM 5-103, Survivability
4. FMFM 13, MAGTF Engineer Operations
5. FMFM 3-1, Command and Staff Action
6. FMFM 6, Ground Combat Operations
7. MCRP 3-17B, Engineer Forms and Reports
8. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.03.02 (CORE) ADVISE COMMANDER ON SURVIVABILITY OPERATIONS

CONDITION(S): Given a tactical situation, a map, concept of operations, commander's intent, survivability analysis, task organization of personnel and equipment, and references.

STANDARD(S): To utilize engineer assets consistent with the survivability analysis, commander's intent, and concept of operations per the references.

PERFORMANCE STEPS:

1. Brief commander on engineer intelligence requirements.

2. Brief commander on recommended survivability plan.

3. Brief commander on effects of terrain and weather on survivability operations.

4. Brief commander on engineer estimate of supportability.

5. Identify logistical shortfalls to S-4/G-4.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 34-130, Intelligence Preparation of the Battlefield

2. FM 5-103, Survivability

3. FMFM 13, MAGTF Engineer Operations

4. FMFM 3-1, Command and Staff Action

5. FMFM 6, Ground Combat Operations

6. MCRP 3-17B, Engineer Forms and Reports

7. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.03.03 (CORE) PREPARE A SURVIVABILITY PLAN

CONDITION(S): Given a tactical situation, a map, operations order, commander's intent, unit's survivability requirements, and references.

STANDARD(S): To utilize engineer assets consistent with the enemy threat identified, commander's intent, and the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct intelligence preparation of the battlefield (IPB).

3. Identify Request for Information (RFI) to the S-2/G-2.

4. Identify location of survivability positions.

5. Identify and prioritize survivability requirements.

6. Plan for protective obstacle integration.

7. Task organize engineer equipment and personnel.

8. Plan inspections of survivability positions for proper construction techniques.

9. Prepare survivability appendix to operations order.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 20-3, Camouflage

2. FM 5-103, Survivability

3. FMFM 3-1, Command and Staff Action

4. FMFM 6, Ground Combat Operations

5. MCRP 3-17A, Engineer Field Data

6. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.03.04 (CORE PLUS) SUPERVISE CONSTRUCTION OF SURVIVABILITY POSITIONS

CONDITION(S): Given a tactical situation, survivability plan, an overlay, operations order, commanders intent, task organized personnel and equipment, and references.

STANDARD(S): To best utilize engineer assets consistent with the survivability plan, the commander's intent, and the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze survivability plan to determine requirements.

2. Task organize personnel and equipment.

3. Issue the order.

4. Inspect work progress to ensure optimum use of natural cover and concealment.

5. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-103, Survivability

2. MCRP 3-17A, Engineer Field Data

3. MCRP 3-17B, Engineer Forms and Reports

DUTY AREA 04 - GENERAL ENGINEERING

TASK: 1302.04.01 (CORE) PERFORM GENERAL ENGINEERING ANALYSIS

CONDITION(S): Given a tactical situation, a map, courses of action, commander's intent, and references.

STANDARD(S): To identify factors affecting the commander's ability to sustain personnel, supplies, and equipment in the battlespace due to terrain, weather, enemy activity, and host nation support per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct intelligence preparation of the battlefield (IPB).

3. Identify Request for Information (RFI) to the S-2/G-2.

4. Conduct engineer reconnaissance as required.

5. Prepare engineer estimate of supportability.

6. Identify units requiring general engineering support.

7. Identify and prioritize general engineering tasks in support of commander's intent.

8. Submit required engineer reports.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 34-130, Intelligence Preparation of the Battlefield

2. FMFM 13, MAGTF Engineer Operations

3. FMFM 3-1, Command and Staff Action

4. FMFM 5-1, Marine Aviation

5. FMFM 6, Ground Combat Operations

6. MCRP 3-17B, Engineer Forms and Reports

7. MCWP 4-1, Logistics Operations

8. MCWP 4-11.6, Bulk Liquid Operations

9. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.04.02 (CORE) ADVISE COMMANDER ON GENERAL ENGINEERING SUPPORT

CONDITION(S): Given a tactical situation, a map, concept of operations, commander's intent, task organization of personnel and equipment, and references.

STANDARD(S): To utilize engineer personnel and equipment consistent with the general engineering analysis, commander's intent, and concept of operations per the references.

PERFORMANCE STEPS:

1. Brief commander on Request For Information (RFI).
2. Brief commander on recommended general engineering support.
3. Brief commander on effects of terrain and weather on general engineering operations.
4. Brief commander on engineer estimates of supportability.
5. Brief commander on available non-organic engineer support.
6. Identify logistical requirements to S-4/G-4.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 34-130, Intelligence Preparation of the Battlefield
2. FMFM 13, MAGTF Engineer Operations
3. FMFM 3-1, Command and Staff Action
4. FMFM 5-1, Marine Aviation
5. FMFM 6, Ground Combat Operations
6. MCWP 4-1, Logistics Operations
7. MCWP 4-11.6, Bulk Liquid Operations
8. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.04.03 (CORE) PLAN CANTONMENT LAYOUT

CONDITION(S): Given a tactical situation, a map, operations order, commander's intent, size of the unit to occupy cantonment, and references.

STANDARD(S): To meet unit requirements outlined in the concept of operations and commander's intent per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Identify Request for Information (RFI) to the S-2/G-2.

3. Conduct a site reconnaissance.

4. Determine camp layout.

5. Select a temporary facility.

6. Determine logistical support requirements.

7. Determine bill of materials.

8. Determine utility requirements.

9. Determine drainage requirements.

10. Develop obstacle/barrier plan as required.

11. Establish a survivability plan as required.

12. Determine task organization of personnel and equipment.

13. Illustrate final design.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-102, Countermobility

2. FM 5-103, Survivability

3. FM 5-104, General Engineering

4. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

5. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

6. FMFM 13, MAGTF Engineer Operations

7. MCRP 3-17A, Engineer Field Data

8. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1302.04.04 (CORE PLUS) MANAGE CONSTRUCTION PROJECTS

CONDITION(S): Given a tactical situation, a map, construction projects, concepts of operations, commander's intent, task organization of personnel and equipment, construction standards, and reference.

STANDARD(S): To meet requirements outlined in the concept of operations and the commander's intent per the references.

PERFORMANCE STEPS:

1. Analyze the construction project requirements.
2. Conduct site reconnaissance.
3. Develop the construction plan.
4. Determine resource availability and time constraints.
5. Determine coordination required for construction project.
6. Develop construction management tool.
7. Brief commander on the construction plan.
8. Develop an environmental plan.
9. Develop a safety plan.
10. Issue the order.
11. Perform coordination required for construction project.
12. Supervise construction projects.
13. Enforce quality control during project construction.
14. Update construction plan and reallocate resources as required.
15. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-412, Project Management

TASK: 1302.04.05 (CORE) PLAN HORIZONTAL CONSTRUCTION OPERATION (ROAD)

CONDITION(S): Provided a horizontal construction mission, a map, commander's intent, concept of operations, and references.

STANDARD(S): To meet the construction requirements outlined in the concept of operations per acceptable construction standards and the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available, time space and logistics (METT-TSL).

2. Determine Requests for Information (RFI).

3. Conduct site reconnaissance.

4. Perform hasty field identification of soils.

5. Determine drainage requirements.

6. Compute Average Daily Traffic (ADT) and Design Hourly Volume (DHV).

7. Establish geometric design controls.

8. Determine structural design.

9. Compute earthwork volumes.

10. Calculate earthwork production.

11. Determine TO/TE requirements.

12. Employ construction management tool.

13. Establish quality control.

14. Develop maintenance repair plan.

15. Issue the order.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-410, Military Soils Engineering

2. FM 5-412, Project Management

3. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

4. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

5. FM 5-434, Earthmoving Operations

6. FM 5-530, Materials Testing

TASK: 1302.04.06 (CORE) PLAN HORIZONTAL CONSTRUCTION OPERATION (FORWARD OPERATING BASE/TACTICAL LANDING ZONE)

CONDITION(S): Provided a horizontal construction mission, a map, construction standards, commander's intent, concept of operations and references.

STANDARD(S): To meet requirements as outlined in the concept of operations and the commander's intent per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available, time space and logistics (METT-TSL).

2. Determine Requests for Information (RFI).

3. Conduct site reconnaissance.

4. Perform hasty field identification of soils.

5. Determine drainage requirements.

6. Select appropriate configuration.

7. Determine matting requirements.

8. Compute earthwork volumes.

9. Calculate earthwork production.

10. Determine TO/TE requirements.

11. Employ construction management tool.

12. Establish quality control plan.

13. Develop maintenance/repair plan.

14. Issue the order.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-33, Terrain Analysis

2. FM 5-410, Military Soils Engineering

3. FM 5-412, Project Management

4. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

5. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

6. FM 5-434, Earthmoving Operations

7. MCRP 4-11.3E VOL I, Multi-Service Helicopter Sling Load: Basic Operations

8. MCRP 4-11.3E VOL II, Multi Service Helicopter Sling Load: Single Point Rigging Procedures

9. MCRP 4-11.3E VOL III, Multi-Service Helicopter Sling Load: Dual Point Rigging Procedures

10. NAVAIR 00-80T-115, Expeditionary Airfields NATOPS Manual

11. NAVAIR 51-60-A-1, Installation, Maintenance, Repackaging and Illustrated Parts Breakdown, AM-2 Airfield Landing Mat and Accessories

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TASK: 1302.04.07 (CORE PLUS) SUPERVISE HORIZONTAL CONSTRUCTION OPERATION

CONDITION(S): Given the concept of operations, commander's intent, task organization of personnel and equipment, a construction design, and references.

STANDARD(S): To ensure all construction activities are completed per the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze design to determine requirements.

2. Employ construction management tool.

3. Establish site layout.

4. Coordinate logistical requirements.

5. Issue the order.

6. Inspect construction tasks to ensure proper construction techniques.

7. Update construction schedule to maximize productivity.

8. Submit appropriate engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-33, Terrain Analysis

2. FM 5-410, Military Soils Engineering

3. FM 5-412, Project Management

4. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

5. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

6. FM 5-434, Earthmoving Operations

7. MCRP 4-11.3E VOL I, Multi-Service Helicopter Sling Load: Basic Operations

8. MCRP 4-11.3E VOL II, Multi Service Helicopter Sling Load: Single Point Rigging Procedures

9. MCRP 4-11.3E VOL III, Multi-Service Helicopter Sling Load: Dual Point Rigging Procedures

10. NAVAIR 00-80T-115, Expeditionary Airfields NATOPS Manual

11. NAVAIR 51-60-A-1, Installation, Maintenance, Repackaging and Illustrated Parts Breakdown, AM-2 Airfield Landing Mat and Accessories

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TASK: 1302.04.08 (CORE) PLAN A VERTICAL CONSTRUCTION PROJECT

CONDITION(S): Given a tactical situation, a map, commander's intent, concept of operations, construction standards, task organized personnel and equipment, and references.

STANDARD(S): To meet requirements outlined in the concept of operations and the construction standards per the references.

PERFORMANCE STEPS:

1. Analyze the mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Determine Requests for Information (RFI).

3. Conduct site reconnaissance.

4. Determine soil stabilization requirements.

5. Determine drainage requirements.

6. Determine logistical requirements.

7. Develop Bill of Materials (BOM).

8. Establish safety plan.

9. Establish quality control program.

10. Illustrate final design.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-412, Project Management
2. TM 5-426, Carpentry
3. TM 5-704, Construction Print Reading in the Field

TASK: 1302.04.09 (CORE PLUS) SUPERVISE VERTICAL CONSTRUCTION OPERATION

CONDITION(S): Given the concept of operations, commander's intent, task organization of personnel and equipment, a construction design, and references.

STANDARD(S): To ensure all construction activities are completed per the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze design to determine requirements.
2. Develop construction management tool.
3. Establish site layout.
4. Coordinate logistical requirements.
5. Issue the order.
6. Inspect construction tasks.
7. Update construction schedule as required.
8. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-412, Project Management
2. FM 5-426, Carpentry
3. MCRP 3-17B, Engineer Forms and Reports
4. TM 5-704, Construction Print Reading in the Field

TASK: 1302.04.10 (CORE) DESIGN CONCRETE MIX

CONDITION(S): Given strength specification, soil analysis, concrete structure design, construction standards, and reference.

STANDARD(S): To meet strength specifications described in the concrete structure design and the construction standards per the reference.

PERFORMANCE STEPS:

1. Determine the type of cement to be used.

2. Select a water-cement ratio.

3. Perform a slump test.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-428, Concrete and Masonry

TASK: 1302.04.11 (CORE) DESIGN CONCRETE FORMS

CONDITION(S): Given construction standards, concrete structure design, commander's intent, concept of operations, task organized personnel and equipment, and reference.

STANDARD(S): To support all deadloads and liveloads, and meet standards described in the concrete structure design per the references.

PERFORMANCE STEPS:

1. Analyze the concrete structure design to determine the type of form.

2. Determine bill of materials.

3. Determine the proper spacing for all components of the form.

4. Illustrate final design.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-428, Concrete and Masonry

TASK: 1302.04.12 (CORE PLUS) DESIGN CONCRETE BLOCK CONSTRUCTION

CONDITION(S): Given construction standards, commander's intent, concept of operations, task organized personnel and equipment, and reference.

STANDARD(S): To meet or exceed the requirements specified in the construction plan per the references.

PERFORMANCE STEPS:

1. Conduct site survey.
2. Determine site layout.
3. Determine resource availability.
4. Determine utility requirements.
5. Prepare construction drawing.
6. Determine bill of materials.
7. Obtain design approval.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-428, Concrete and Masonry

TASK: 1302.04.13 (CORE PLUS) SUPERVISE CONCRETE BLOCK CONSTRUCTION

CONDITION(S): Given a concrete block structure construction design, construction schedule, task organized personnel and equipment, and references.

STANDARD(S): To meet structure design requirements and the construction schedule per the references.

PERFORMANCE STEPS:

1. Analyze design to determine requirements.
2. Supervise site layout.
3. Manage quality control of the construction.
4. Update construction schedule as required.
5. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-412, Project Management
2. FM 5-428, Concrete and Masonry

3. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.04.14 (CORE) DESIGN REINFORCED CONCRETE STRUCTURES

CONDITION(S): Given an operations order, commander's intent, construction standards, task organized personnel and equipment, and reference.

STANDARD(S): To meet or exceed requirements of the concept of operations and the construction standards per the reference.

PERFORMANCE STEPS:

1. Analyze construction standards to determine requirements.
2. Conduct site survey.
3. Determine type of cement.
4. Select water-cement ratio.
5. Perform slump test.
6. Determine type and amount of reinforcement.
7. Determine bill of materials.
8. Illustrate final design.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-428, Concrete and Masonry

TASK: 1302.04.15 (CORE PLUS) SUPERVISE CONSTRUCTION OF A REINFORCED CONCRETE STRUCTURE

CONDITION(S): Given a reinforced concrete structure, construction design, construction schedule, task organized equipment and personnel, and reference.

STANDARD(S): To meet structure design requirements and the construction schedule per the references.

PERFORMANCE STEPS:

1. Analyze design to determine requirements.
2. Supervise site layout.
3. Manage quality control of the construction.
4. Update construction schedule as required.

5. Submit required engineer reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-412, Project Management

2. FM 5-428, Concrete and Masonry

3. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.04.16 (CORE) DEVELOP FIELD WATER DISTRIBUTION SYSTEM PLAN

CONDITION(S): Given a tactical situation, a map, an operations order, specific number of personnel, equipment, and facilities, and references.

STANDARD(S): To meet or exceed requirements outlined in the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct site reconnaissance.

3. Identify existing water sources through water point reconnaissance.

4. Determine water consumption based on numbers of personnel, equipment, facilities, and climate conditions.

5. Develop plan for production, purification, storage, and distribution, of water. (i.e. Well drilling, Hypo-chlorination, ROWPU)

6. Plan drainage system to prevent contamination of water source from storm runoff.

7. Plan construction or improvement main supply routes (MSR) from water point and/or well sites.

8. Determine task organization of equipment and personnel to operate the water points and distribution system.

9. Develop a distribution diagram.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 10-52, Water Supply in Theater of Operations

2. MCWP 4-11.5, SeaBee Operations in the MAGTF

3. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1302.04.17 (CORE) DEVELOP MOBILE ELECTRIC POWER DISTRIBUTION PLAN

CONDITION(S): Given a tactical situation, a map, an operations order, specific number of personnel, equipment, and facilities, and references.

STANDARD(S): To meet or exceed requirements outlined in the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct site reconnaissance.

3. Identify existing electrical power sources.

4. Determine electrical power requirements based on personnel, equipment, and facilities.

5. Determine priorities for electric power.

6. Determine task organization of personnel and equipment to construct and operate the mobile electric power distribution system.

7. Develop a distribution diagram.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations

2. MCRP 3-17A, Engineer Field Data

3. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.04.18 (CORE) PLAN FUEL OPERATIONS

CONDITION(S): Given a tactical situation, a map, concept of operations, commander’s intent, task organization of equipment and personnel, and references.

STANDARD(S): To meet requirements as outlined in the concept of operations and the commander’s intent per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Plan reconnaissance of selected sites.

3. Determine the fuel storage and distribution requirements to support the concept of operations.

4. Identify existing fuel sources.

5. Coordinate with appropriate services for the delivery of fuel.

6. Select sites for the fuel farms.

7. Plan horizontal construction operations.

8. Determine task organization of equipment and personnel.

9. Illustrate the layout of the fuel farm.

10. Illustrate fuel distribution plan.

11. Maintain record of fuel distribution.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 10-67, Petroleum Supply in Theater of Operation

2. FMFM 13, MAGTF Engineer Operations

DUTY AREA 05 - TRAINING

TASK: 1302.05.01 (CORE PLUS) DEVELOP ENGINEER TRAINING PLAN

CONDITION(S): Given an engineer unit, training requirements, and references.

STANDARD(S): To sustain engineer operations training in support of the MAGTF per the references.

PERFORMANCE STEPS:

1. Determine mission requirements based on unit missions, Mission Performance Standards (MPS), and Individual Training Standards (ITS).

2. Determine current unit capabilities, both individual and unit proficiency.

3. Identify training shortfalls and strengths of unit.

4. Determine specific training objectives to correct shortfalls in accordance with ITS's and MPS's.

5. Develop logical sequence for training individual skills, then squad skills, then platoon skills, and company skills.

6. Brief the commander on the training plan.

7. Issue the order for training and prepare the training schedule utilizing backwards planning.

8. Supervise the coordination of logistical support.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCRP 3-0A, Unit Training Management Guide

2. MCRP 3-0B, How to Conduct Training

DISTANCE LEARNING PRODUCT(S):

1. MCI (SPD) 1520, Company Commander's Handbook

TASK: 1302.05.02 (CORE PLUS) SUPERVISE UNIT TRAINING

CONDITION(S): Given a unit training plan, time restraints, commander's intent, and personnel and equipment.

STANDARD(S): To meet requirements of the training plan and the commander's intent per the references.

PERFORMANCE STEPS:

1. Brief leaders on the objectives and standards for the training.
2. Prepare training aides as necessary.
3. Coordinate logistics requirements.
4. Conduct training.
5. Evaluate/Debrief individual and unit performance.
6. Conduct remedial or sustainment training as appropriate.
7. Submit appropriate reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCRP 3-0A, Unit Training Management Guide
2. MCRP 3-0B, How to Conduct Training

DUTY AREA 06 - MAINTENANCE

TASK: 1302.06.01 (CORE) MANAGE MAINTENANCE MANAGEMENT REPORTS AND RECORDS

CONDITION(S): Given a Daily Process Report (DPR), Daily Transaction List (DTL), Equipment Repair Order (ERO), Equipment Repair Order Shopping List (EROSL), and references.

STANDARD(S): To identify discrepancies and processing errors within the maintenance cycle.

PERFORMANCE STEPS:

1. Review DPR for discrepancies within the maintenance and supply cycle.
2. Review DTL transaction for processing errors.
3. Inspect ERO for compliance with references.
4. Review EROSL to identify any discrepancies.
5. Conduct reconciliation with MMO and Supply.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual
2. TM 4700-15/1, Equipment Recording Procedures
3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1302.06.02 (CORE) MANAGE AN ORGANIZATIONAL MAINTENANCE PROGRAM

CONDITION(S): Given an engineer task organization of equipment and personnel, equipment technical manuals, and references.

STANDARD(S): To ensure equipment and maintenance records are maintained per the references.

PERFORMANCE STEPS:

1. Ensure proper manuals and forms are available.
2. Ensure personnel are trained in proper procedures.
3. Ensure required maintenance is performed and documented.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TM 4700-15/1, Equipment Recording Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

DUTY AREA 07 - ENGINEER INTELLIGENCE

TASK: 1302.07.01 (CORE) PLAN ENGINEER RECONNAISSANCE MISSION

CONDITION(S): Given a tactical situation, a map, prioritized information requirements, commander's intent, concept of operations, and references.

STANDARD(S): To support the commander's intent and the concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).
2. Conduct map reconnaissance.
3. Determine the type of engineer reconnaissance to be performed.
4. Conduct Intelligence Preparation of the Battlefield (IPB).
5. Identify Requests for Information (RFI) to the S-2/G-2.
6. Determine exact area/location to be reconnoitered.
7. Determine task organization for the reconnaissance mission.
8. Plan collection, evaluation, and dissemination of the information.
9. Issue the warning order.
10. Prepare the order.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance
2. FMFM 13, MAGTF Engineer Operations
3. MCDP 5, Planning
4. MCRP 3-17B, Engineer Forms and Reports
5. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.07.02 (CORE) PERFORM ENGINEER RECONNAISSANCE MISSION

CONDITION(S): Given a tactical situation, maps, necessary equipment, a mission order, and references.

STANDARD(S): To ensure the completed reconnaissance mission meets requirements of the mission order per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).
2. Determine reconnaissance requirements.
3. Prioritize the Requests for Information (RFI).
4. Issue the warning order.
5. Task organize personnel and equipment.
6. Issue the order.
7. Conduct rehearsals.
8. Inspect reconnaissance team.
9. Execute reconnaissance mission.
10. Submit reports.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 5-101-5-1, Operational Terms and Symbols
2. FM 5-170, Engineer Reconnaissance
3. GTA 5-2-5, Engineer Reconnaissance
4. MCRP 3-17A, Engineer Field Data
5. MCRP 3-17B, Engineer Forms and Reports

TASK: 1302.07.03 (CORE) PERFORM TARGET ANALYSIS

CONDITION(S): Given a tactical situation, a map, a targeting board, a target, commander's intent, concept of operations, and references.

STANDARD(S): To identify the engineer requirements on destroying/protecting potential targets per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct Intelligence Preparation of the Battlefield (IPB).

3. Identify Requests for Information (RFI) to the S-2/G-2.

4. Determine the engineer impact by the proposed level of destruction.

5. Determine means of destruction.

6. Identify critical decision points.

7. Determine effects on civilian population.

8. Determine the level of target protection required.

9. Prioritize the recommended targets.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-250, Explosives and Demolitions

2. FM 90-7, Obstacles

3. MCRP 3-17A, Engineer Field Data

4. STANAG 2123, Obstacle Folder

DUTY AREA 08 - STAFF FUNCTIONS

TASK: 1302.08.01 (CORE) CONDUCT ENGINEER PLANNING

CONDITION(S): Given a tactical situation, a map, commander's guidance, courses of action, an engineer task organization, and references.

STANDARD(S): To utilize engineer personnel and equipment in support of mission requirements per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).
2. Conduct Intelligence Preparation of the Battlefield (IPB).
3. Identify Requests for Information (RFI) to the S-2/G-2.
4. Plan reconnaissance mission(s).
5. Prepare engineer estimate.
6. Identify missions and support requirements.
7. Develop Concept of Operations.
8. Coordinate external requirements.
9. Determine task organization and command/support relationships.
10. Brief the commander on engineer aspects of courses of action.
11. Submit required engineer reports.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-100, Engineer Combat Operations
2. MCRP 3-17B, Engineer Forms and Reports
3. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.08.02 (CORE) PREPARE THE ENGINEER PORTIONS OF THE OPERATIONS ORDER

CONDITION(S): Given a tactical situation, a map, commander's intent, concept of operations, and references.

STANDARD(S): To ensure the engineer portion of the operations order are consistent with concept of operations and commander's intent per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Conduct Intelligence Preparation of the Battlefield (IPB).

3. Determine mobility, countermobility, survivability, and general engineering requirements.

4. Identify logistical requirements to the S-4/G-4.

5. Develop Engineer Concept of Operations.

6. Develop the appropriate engineer appendix, plan, or order.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations

2. MCRP 3-17B, Engineer Forms and Reports

3. MCWP 4-1, Logistics Operations

4. MCWP 5-1, Marine Corps Planning Process

TASK: 1302.08.03 (CORE) BRIEF COMMANDER ON ENGINEER SITUATION

CONDITION(S): Given a tactical situation, a map, an engineer situation report, commander's intent, concept of operations, and references.

STANDARD(S): To provide a description of the current engineer situation, including a summary of status of current engineer activities, capabilities, and limitations per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Brief impact of METT-TSL on engineer operations.

3. Brief the status of engineer personnel and equipment.

4. Brief current and future engineer operations.

5. Brief status of Class III, IV, V in relation to engineer operations.

6. Brief impact of Class III, IV, and V on engineer operations.

7. Brief engineer Requests for Information (RFI).

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations

2. MCRP 3-17B, Engineer Forms and Reports

3. MCWP 5-1, Marine Corps Planning Process

DUTY AREA 09 - DEMOLITIONS

TASK: 1302.09.01 (CORE) PLAN FOR DEMOLITION OPERATIONS

CONDITION(S): Given a tactical situation, a map, an operations order, the commander's intent, equipment and personnel, and the references.

STANDARD(S): To execute a demolition mission in support of the commander's intent and concept of operations per the references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space, and logistics (METT-TSL).

2. Determine Requests for Information (RFI).

3. Identify demolitions targets based on commander's intent.

4. Direct demolition reconnaissance as required.

5. Analyze required information from the DA Form 2203-R.

6. Complete the demolition target folder.

7. Estimate the logistics required based on the demolition reconnaissance.

8. Determine task organization of personnel and equipment.

9. Prioritize targets based on commander's intent.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 5-250, Explosives and Demolitions

2. FMFM 13, MAGTF Engineer Operations

3. MCRP 3-17A, Engineer Field Data

4. MCRP 3-17B, Engineer Forms and Reports

5. STANAG 2123, Obstacle Folder

TASK: 1302.09.02 (CORE PLUS) SUPERVISE DEMOLITION OPERATIONS

CONDITION(S): Given a tactical situation, a map, an operations order, the commander's intent, a demolitions plan, demolitions, equipment and personnel, and the references.

STANDARD(S): To execute the commander's intent and the concept of operations per the references.

PERFORMANCE STEPS:

1. Review the demolition plan.
2. Validate quantity and type of demolition required.
3. Task organize personnel and equipment.
4. Issue the order.
5. Plan and conduct mission rehearsal.
6. Conduct demolition mission.
7. Submit engineer reports as required.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 5-250, Explosives and Demolitions
2. FMFM 13, MAGTF Engineer Operations
3. MCRP 3-17A, Engineer Field Data
4. MCRP 3-17B, Engineer Forms and Reports
5. STANAG 2123, Obstacle Folder

TASK: 1302.09.03 (CORE) PREPARE A DEMOLITION TARGET FOLDER

CONDITION(S): Given a tactical situation, a map, a demolition target, a completed DA form 2203-R, a photograph of the target, and the reference.

STANDARD(S): To provide all of the detail necessary to destroy the targets per the references.

PERFORMANCE STEPS:

1. Analyze the information from the DA 2203-R.
2. Determine the placement of the explosives on the target.
3. Determine the amount of explosives required to achieve the desired effect.
4. Determine task organization of personnel and equipment and the required demolition tools and accessories
5. Determine the organization for the demolition guard.
6. Determine amount of time it will take to prepare the target for demolition.

7. Complete the obstacle folder, STANAG 2123.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-250, Explosives and Demolitions
2. MCRP 3-17A, Engineer Field Data
3. MCRP 3-17B, Engineer Forms and Reports
4. STANAG 2017, Demolition Order
5. STANAG 2123, Obstacle Folder
6. TC 5-6-14, How to Prepare a Target Folder

TASK: 1302.09.04 (CORE) DETONATE DEMOLITIONS

CONDITION(S): Given a tactical situation, demolition target, demolitions, demolition tools, and references.

STANDARD(S): To produce the desired effect on the target per the references.

PERFORMANCE STEPS:

1. Review target folder, if available.
2. Conduct target reconnaissance to obtain critical dimensions necessary for charge calculations.
3. Determine type of explosive to use.
4. Select formula calculation for single charge.
5. Determine number of charges/total amount of explosives.
6. Place the charge on the target.
7. Prime the charge.
8. Tamp as required.
9. Detonate the explosive.
10. Conduct battle damage assessment.
11. Submit required engineer reports.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 5-250, Explosives and Demolitions

2. MCRP 3-17A, Engineer Field Data

3. MCRP 3-17B, Engineer Forms and Reports

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
M028	DEMO KIT, BANGALORE TORPEDO 1 kit per class	0.100 EA	1.000 EA	2.000 EA
M030	CHG, DEMO, 1/4 LB BLOCK TNT 2 per demonstration	2.000 EA	1.000 EA	2.000 EA
M032	CHG, DEMO, 1-LB BLOCK TNT 12 per class	2.000 EA	5.000 EA	10.000 EA
M130	CAP, BLASTING, ELEC 1 per demonstration	2.300 EA	30.000 EA	60.000 EA
M131	CAP, BLASTING, NON-ELEC 3 per demonstration	4.300 EA	30.000 EA	60.000 EA
M420	CHG, DEMO, SHAPED, 15 LB 1 per class	0.085 EA	1.000 EA	2.000 EA
M456	DETONATING CORD 500 ft per demonstration	85.000 FT	1.000 FT	2.000 FT
M591	DYNAMITE, MILITARY 20 per class	1.700 EA	1.000 EA	2.000 EA
M670	FUZE, BLASTING, TIME 200 ft per class	40.000 FT	150.000 FT	300.000 FT
M757	CHG, DEMO, M183 W/ACCESSORIES 1.5 per class	0.300 EA	1.000 EA	2.000 EA
M766	IGNITOR, TIME, BLASTING, M60 36 per class	4.700 EA	36.000 EA	72.000 EA
M982	CHG, DEMO EXPLOSIVE SHEET 19FT 4 ft per class	0.334 FT	1.000 FT	2.000 FT
MM30	CHARGE, FLSC, 20GR, FT 4 per class	0.334 EA	4.000 EA	8.000 EA
MM44	CHARGE, FLSC, 75GR, FT 1 per class	0.085 EA	1.000 EA	2.000 EA
MM46	CHARGE, FLSC, 225GR, FT 1 per class	0.085 EA	1.000 EA	2.000 EA
MM47	CHARGE, FLSC, 400GR, FT 1 per class	0.085 EA	1.000 EA	2.000 EA
MM48	CHARGE, FLSC, 600GR, FT 1 per class	0.085 EA	1.000 EA	2.000 EA
MM56	NONEL DET, 175ms DLY, 100FT 1 per class	0.085 EA	4.000 EA	8.000 EA

TASK: 1302.09.05 (CORE PLUS) ENGAGE TARGETS WITH EXPEDIENT DEMOLITIONS

CONDITION(S): Provided a mission, a designated area, personnel, demolitions tools, explosives, improvised materials, and references.

STANDARD(S): To produce the desired effect on target per the references.

PERFORMANCE STEPS:

1. Review the mission.
2. Construct a platter charge.
3. Construct an expedient "claymore" charge.
4. Construct a grape shot directional charge.
5. Construct an omni (360 degree) charge.
6. Construct expedient shaped charge.
7. Construct expedient flame mine.
8. Construct expedient bangalore torpedo.
9. Engage the target.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 21-75, Combat Skills of the Soldier
2. FM 5-250, Explosives and Demolitions

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
M130	CAP, BLASTING, ELEC	0.000 EA	14.000 EA	28.000 EA
M131	CAP, BLASTING, NON-ELEC	0.000 EA	14.000 EA	28.000 EA
M456	DETONATING CORD	0.000 FT	500.000 FT	1000.000 FT
M670	FUZE, BLASTING, TIME	0.000 FT	50.000 FT	100.000 FT
M757	CHG, DEMO, M183 W/ACCESSORIES	0.000 EA	1.000 EA	2.000 EA
M766	IGNITOR, TIME, BLASTING, M60	0.000 EA	18.000 EA	36.000 EA

MOS 1310, ENGINEER EQUIPMENT OFFICER

DUTY AREA 01 - MIMMS

TASK: 1310.01.01 (CORE) MANAGE MAINTENANCE ADMINISTRATION

CONDITION(S): Provided maintenance resources, appropriate maintenance directives, and the reference.

STANDARD(S): To support mission requirements per the reference.

PERFORMANCE STEPS:

1. Review requirements outlined in the reference.
2. Review existing maintenance management procedures.
3. Initiate corrective action to correct any deficiencies.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1310.01.02 (CORE) MANAGE TRAINING PROGRAM

CONDITION(S): Provided with the references and a unit annual training plan.

STANDARD(S): To meet mission training requirements per the references.

PERFORMANCE STEPS:

1. Review requirements as outlined in the references.
2. Review the annual training plan.
3. Establish a section training plan.
4. Manage MOS training.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Unit T/E
2. Unit T/O

3. MCO 3501.7, MCCRES Volume VI

4. MCO P4790.2, MIMMS Field Procedures Manual

TASK: 1310.01.03 (CORE) MANAGE RECORDS AND FORMS

CONDITION(S): Provided with the references, engineer equipment, and the appropriate records and forms.

STANDARD(S): To ensure record-keeping requirements for engineer equipment are met per the references.

PERFORMANCE STEPS:

1. Identify engineer equipment records requirements.

2. Ensure appropriate record-keeping procedures are established.

3. Ensure records and forms are maintained/submitted as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1310.01.04 (CORE) MANAGE PUBLICATIONS

CONDITION(S): Provided with the references, Marine Corps Orders, and technical publications.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review references for engineer publications requirements.

2. Validate requirements based on mission and T/E.

3. Ensure NAVMC 10772 submission procedures are established.

4. Manage publications program.

5. Take action to correct discrepancies as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Stock Lists
2. Unit T/E
3. Unit T/O
4. MCO P4790.2, MIMMS Field Procedures Manual
5. MCO P5215.17, The USMC Tech Pub System
6. MCO P5600.31, Marine Corps Publication and Printing
7. NAVMC 2761, Catalog of Publications

TASK: 1310.01.05 (CORE PLUS) MANAGE ENGINEER EQUIPMENT AVAILABILITY

CONDITION(S): Provided with the references, maintenance resources, and engineer equipment.

STANDARD(S): To ensure optimum equipment availability to meet mission requirements.

PERFORMANCE STEPS:

1. Review the references.
2. Identify equipment shortages/excesses.
3. Review equipment readiness posture.
4. Review urgency of need designator assignment.
5. Review maximum maintenance cycle time.
6. Develop plan to increase equipment availability.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. Unit T/E
2. Unit T/O
3. MCO 3000.11, Marine Corps Ground Equipment Reporting
4. MCO P4790.2, MIMMS Field Procedures Manual

TASK: 1310.01.06 (CORE) MANAGE ENGINEER EQUIPMENT SECTION SUPPLY SUPPORT PROGRAM

CONDITION(S): Provided with the references, maintenance related MIMMS-AIS reports, and appropriate equipment related publications.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Submit input for field budget requirements.
3. Submit input for supply blocks.
4. Manage/execute allocate funding.
5. Establish/manage PEB and ERO layette procedures.
6. Establish validation/reconciliation procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Unit T/E
2. MCO 4400.16, Uniform Material Movement Issue and Priority System (UMMIPS)
3. MCO P4400.150, Consumer Level Supply Policy Manual
4. MCO P4400.82, MIMMS Control Item Management Manual
5. MCO P4790.2, MIMMS Field Procedures Manual
6. MCO P7100.8, Field Budget Guidance Manual
7. TM 4700-15/1, Equipment Recording Procedures
8. UM 4400-124, SASSY Using Units Procedures
9. UM 4400-15, Organic Property Control Procedures
10. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1310.01.07 (CORE) MANAGE SUPPORT AND TEST EQUIPMENT PROGRAM

CONDITION(S): Provided with the references, and support and test equipment.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Determine support and test equipment assets and requirements.

3. Ensure support and test equipment assets are consistent with T/E and mission requirements.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: WO

REFERENCE(S):

1. Unit T/E

2. Unit T/O

3. MC (ML), (Microfiche)

4. MCO P4790.2, MIMMS Field Procedures Manual

5. TM 4700-15/1, Equipment Recording Procedures

TASK: 1310.01.08 (CORE) MANAGE PREVENTIVE MAINTENANCE PROGRAM

CONDITION(S): Provided with the references, maintenance resources, and engineer equipment.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Determine equipment PM requirements.

3. Review preventive maintenance schedule.

4. Ensure the engineer equipment preventive maintenance program meets maintenance cycle and mission requirements.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. MCO P4790.2, MIMMS Field Procedures Manual

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1310.01.09 (CORE) MANAGE CORRECTIVE MAINTENANCE

CONDITION(S): Provided with the references, maintenance resources, maintenance related reports, and engineer equipment.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Manage production control priorities.
2. Monitor corrective maintenance procedures.
3. Submit appropriate maintenance reports.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1310.01.10 (CORE) MANAGE MIMMS-AIS

CONDITION(S): Provided with the references, maintenance related reports, and supporting documents.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review daily process report.
2. Validate LM2 report.
3. Manage weekly TAM report.
4. Manage weekly maintenance exceptions report.
5. Manage weekly material report.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual
2. TM 4700-15/1, Equipment Recording Procedures
3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1310.01.11 (CORE) MANAGE MAINTENANCE RELATED PROGRAMS

CONDITION(S): Provided with the references, engineer equipment, appropriate records/forms, and support equipment.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Determine requirements for maintenance related programs.
2. Manage modification control program.
3. Manage calibration control program.
4. Manage new equipment warranty program.
5. Manage joint oil analysis program (JOAP).
6. Manage replacement and evacuation program (R&E).
7. Manage repair and return program (R&R).
8. Manage quality deficiency program (QDR).
9. Manage recoverable items program.
10. Manage quality control program.
11. Manage tool control program.
12. Manage dispatching procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Engineer Equipment Material Fielding Plans (MCO'S)
2. Appropriate Equipment Technical Publications
3. Fed Log
4. Unit T/E
5. MC (ML), (Microfiche)
6. MCO 4105.2, USMC Warranty Program

7. MCO 4731.1, Oil Analysis Program for Ground Equipment

8. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment Calibration and Maintenance Program

9. MCO P4400.82, MIMMS Control Item Management Manual

10. MCO P4790.2, MIMMS Field Procedures Manual

11. TI 4710-14/1, Recovery and Evacuation Criteria USMC

12. TI 4733 14/1, USMC Oil Analysis Program

13. TI 4733 15/1, Calibration Requirements TMDE Camp

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

DUTY AREA 02 - ENGINEER EQUIPMENT MAINTENANCE SHOP OPERATIONS

TASK: 1310.02.01 (CORE) SUPERVISE LOAD TESTING OF ENGINEER EQUIPMENT

CONDITION(S): Provided with the references, appropriate load lifting equipment with completed ACI, and maintenance resources.

STANDARD(S): To ensure equipment is certified per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Determine load testing requirements.
3. Develop unit load testing procedures.
4. Manage load testing of equipment.
5. Review load test data.
6. Certify equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. MCO P11262.2, Inspection Test and Certification of Tactical Ground Load Lifting Equipment
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1310.02.02 (CORE) LAYOUT A MAINTENANCE SHOP

CONDITION(S): Provided with the references, an area or facility, a maintenance mission, and maintenance resources.

STANDARD(S): To meet mission requirements per the references.

PERFORMANCE STEPS:

1. Identify resources.
2. Identify mission requirements.
3. Identify environmental and natural resource considerations.
4. Designate appropriate maintenance shop areas.
5. Implement the maintenance shop plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Federal, State, and Local Regulations
2. Unit T/E
3. Unit T/O
4. MCO P4790.2, MIMMS Field Procedures Manual
5. MCO P5090.2, Environmental Compliance and Protection Manual
6. OPNAV 5090.1, Environmental and Natural Resources Protection Plan

DUTY AREA 03 - ENGINEER EQUIPMENT OPERATIONS

TASK: 1310.03.01 (CORE) MANAGE ENGINEER EQUIPMENT LICENSING PROGRAM

CONDITION(S): Provided with the references, engineer personnel and equipment, and support documentation.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Identify licensing requirements.
3. Develop a unit licensing program.
4. Manage the engineer licensing program.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. TM 11275-15/4, Tactical Engineer Equipment Licensing Exam Manual
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1310.03.02 (CORE) ESTIMATE HORIZONTAL CONSTRUCTION PROJECT PRODUCTION AND LOGISTICAL REQUIREMENTS

CONDITION(S): Provided with the references, a horizontal construction mission, and unit resources.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Conduct site reconnaissance.
2. Identify construction requirements.
3. Identify logistical requirements.
4. Identify environmental controls and natural resource considerations.
5. Formulate and estimate.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. Federal, State, and Local Regulations

3. FM 5-412, Project Management

4. FMFM 13, MAGTF Engineer Operations

5. MCO P5090.2, Environmental Compliance and Protection Manual

6. OPNAV 5090.1, Environmental and Natural Resources Protection Plan

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TASK: 1310.03.03 (CORE) MANAGE HORIZONTAL CONSTRUCTION

CONDITION(S): Provided with the references, a horizontal construction project, a construction site, engineer equipment, and resources.

STANDARD(S): To meet specifications and milestones per the construction directive/plan and the references.

PERFORMANCE STEPS:

1. Develop the construction directive/plan.

2. Supervise personnel.

3. Manage equipment.

4. Manage available resources.

5. Conduct quality assurance.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. Construction Directive/Plan

3. FM 5-412, Project Management

4. FMFM 13, MAGTF Engineer Operations

TASK: 1310.03.04 (CORE) MANAGE THE EMPLOYMENT OF ENGINEER EQUIPMENT

CONDITION(S): Provided with the references, engineer equipment, available resources, and a mission.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review mission requirements.
2. Manage engineer equipment operations.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. Federal, State, and Local Regulations
3. FM 5-100, Engineer Combat Operations
4. FM 5-103, Survivability
5. FM 90-1, Countermobility
6. FM 90-13-1, Combined Arms Breaching Operations

DUTY AREA 04 - ENGINEER RELATED PROGRAMS

TASK: 1310.04.01 (CORE) MANAGE SAFETY PROGRAMS

CONDITION(S): Provided with the references, engineer equipment, personnel, and resources.

STANDARD(S): To maintain health and safety within the shop/section per the references.

PERFORMANCE STEPS:

1. Identify equipment safety requirements.
2. Identify personnel safety requirements.
3. Manage maintenance shop safety program.
4. Manage engineer equipment operations safety program.
5. Manage industrial health safety program.
6. Manage hazardous materials program.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Hazardous Materials Program
2. MCO 5100.19, USMC Traffic Safety Program
3. MCO P5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program Manual
4. NAVMC 2692, Safety Program Management Manual

TASK: 1310.04.02 (CORE PLUS) MANAGE CORROSION PREVENTION AND CONTROL

CONDITION(S): Given an equipment section, required safety materials, appropriate tools, and the reference.

STANDARD(S): To maintain equipment in an operational status per the reference.

PERFORMANCE STEPS:

1. Identify corrosion prevention and control requirements.
2. Establish corrosion prevention and control procedures.
3. Manage corrosion prevention and control procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. TM 3080-50, Corrosion Control Procedures for Depot Maintenance Activities

MOS 1316, METAL WORKER

DUTY AREA 01 - EQUIPMENT OPERATIONAL PROCEDURES

TASK: 1316.01.01 (CORE) PERFORM OPERATIONS CHECKS ON WELDING/CUTTING EQUIPMENT

CONDITION(S): Provided a welding facility, welding/cutting equipment, and the references.

STANDARD(S): To ensure safe operating conditions per the references.

PERFORMANCE STEPS:

1. Inventory the equipment necessary to perform the assigned check.
2. Perform before operations checks.
3. Perform during operations checks.
4. Perform after operations checks.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Tungsten Inert Gas/Plasma Cutting Arc Civilian Operator's Manual
2. TM 04055C-15/1, Operation and Maintenance Instructions, Trailer Mounted ARC Welding Machine Chapter 3, DCC-335-P Welder
3. TM 9-237, Welding Theory and Application

DISTANCE LEARNING PRODUCT(S):

1. MCI 1332, Metal Working and Welding Operations

TASK: 1316.01.02 (CORE) CUT SHEET METAL WITH METAL SHEAR

CONDITION(S): Provided a welding facility, a metal shear, material to cut, and the references.

STANDARD(S): To ensure sheet metal is cut safely and accurately to specification.

PERFORMANCE STEPS:

1. Prepare metal shear.
2. Perform operations checks and services.
3. Review the specifications for the cut.
4. Perform the required shear.

5. Secure the metal shear.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. Sheet Metal Shop Practices

TASK: 1316.01.03 (CORE) CUT METAL WITH PLASMA ARC EQUIPMENT

CONDITION(S): Provided a welding facility, plasma arc cutting equipment, material to cut, job specifications, and the references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up plasma arc equipment.
2. Perform operational checks and services.
3. Review the specifications for the cut.
4. Prepare the material for cutting.
5. Perform the required cut.
6. Perform after operation checks and services.
7. Secure the plasma arc cutting equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.01.04 (CORE PLUS) FORGE METAL OBJECTS WITH OXYACETYLENE EQUIPMENT

CONDITION(S): Provided a welding facility, oxyacetylene equipment, material to forge, job specification, and the references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform operation checks and services.

3. Review the specifications for the object.

4. Prepare the material for forging.

5. Forge the material.

6. Perform after operations checks and services.

7. Secure the oxyacetylene equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

TASK: 1316.01.05 (CORE PLUS) PERFORM METAL SURFACE HARDENING

CONDITION(S): Provided oxyacetylene welding equipment, metal, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform before operation checks and services.

3. Review the specifications for the object.

4. Prepare the material for hardening.

5. Harden the object.

6. Perform after operations checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

DISTANCE LEARNING PRODUCT(S):

1. MCI 1332, Metal Working and Welding Operations

TASK: 1316.01.06 (CORE) CONDUCT SAFETY INSPECTIONS

CONDITION(S): Provided a job site with working personnel to inspect and references.

STANDARD(S): To identify safety discrepancies per the reference.

PERFORMANCE STEPS:

1. Review reference.
2. Observe job site personnel and activities.
3. List discrepancies in safety procedures.
4. Issue corrective orders.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO P5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program Manual

DISTANCE LEARNING PRODUCT(S):

1. MCI 1332, Metal Working and Welding Operations

DUTY AREA 02 - OXYACETYLENE WELDING OPERATIONS

TASK: 1316.02.01 (CORE PLUS) WELD CAST IRON WITH OXYACETYLENE EQUIPMENT

CONDITION(S): Provided oxyacetylene welding equipment, cast iron, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

DISTANCE LEARNING PRODUCT(S):

1. MCI 1332, Metal Working and Welding Operations

TASK: 1316.02.02 (CORE) WELD CARBON STEEL WITH OXYACETYLENE EQUIPMENT

CONDITION(S): Provided oxyacetylene welding equipment, carbon steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.

5. Perform the required welds.

6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

TASK: 1316.02.03 (CORE PLUS) WELD ALLOY STEEL WITH OXYACETYLENE EQUIPMENT

CONDITION(S): Provided oxyacetylene welding equipment, alloy steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform operations checks and services.

3. Review the specifications.

4. Prepare the material for welding.

5. Perform the required welds.

6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

TASK: 1316.02.04 (CORE PLUS) WELD CAST STEEL WITH OXYACETYLENE EQUIPMENT

CONDITION(S): Provided oxyacetylene welding equipment, cast steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

DISTANCE LEARNING PRODUCT(S):

1. MCI 1332, Metal Working and Welding Operations

TASK: 1316.02.05 (CORE PLUS) CUT CARBON STEEL WITH OXYACETYLENE EQUIPMENT

CONDITION(S): Provided a welding facility, oxyacetylene equipment, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for cutting.
5. Perform the required cuts.
6. Perform after operations checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.02.06 (CORE) WELD SHEET METAL WITH OXYACETYLENE EQUIPMENT

CONDITION(S): Provided a welding facility, oxyacetylene equipment, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operations checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

DUTY AREA 03 - SHIELD METAL ARC WELDING OPERATIONS

TASK: 1316.03.01 (CORE) WELD CARBON STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided sheet metal welding equipment, carbon steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.03.02 (CORE PLUS) WELD CAST IRON WITH SHIELDED METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided shielded metal arc welding equipment, cast iron, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operation checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.03.03 (CORE) WELD ALLOY STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided shielded metal arc welding equipment, alloy steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operation checks and services.
3. Review the specifications for the project.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.03.04 (CORE PLUS) WELD ALUMINUM WITH SHIELDED METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided shielded metal arc welding equipment, aluminum, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform operation checks and services.

3. Review the specifications for the object.

4. Prepare the material for welding.

5. Perform the required welds.

6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

TASK: 1316.03.05 (CORE PLUS) WELD STAINLESS STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided shielded metal arc welding equipment, stainless steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform operations checks and services.

3. Review the specifications for the object.

4. Prepare the material for welding.

5. Perform the required welds.

6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

TASK: 1316.03.06 (CORE PLUS) WELD CAST STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided shielded metal arc welding equipment, cast steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.03.07 (CORE) WELD ARMOR PLATE WITH SHIELDED METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided shielded metal arc welding equipment, armor plate, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.03.08 (CORE PLUS) WELD PIPE WITH ARC WELDING EQUIPMENT

CONDITION(S): Provided a welding facility, arc welding equipment, material to weld, and the references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform before operation checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

DUTY AREA 04 - GAS METAL ARC WELDING OPERATIONS

TASK: 1316.04.01 (CORE) WELD CARBON STEEL WITH GAS METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided gas metal arc welding equipment, carbon steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.04.02 (CORE) WELD ALLOY STEEL WITH GAS METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided gas metal arc welding equipment, alloy steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.04.03 (CORE) WELD ALUMINUM WITH GAS METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided gas metal welding equipment, aluminum, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.04.04 (CORE) WELD STAINLESS STEEL WITH GAS METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided gas metal arc welding equipment, stainless steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform operations checks and services.

3. Review the specifications for the object.

4. Prepare the material for welding.

5. Perform the required welds.

6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

TASK: 1316.04.05 (CORE PLUS) WELD CAST STEEL WITH GAS METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided gas metal arc welding equipment, cast steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform operation checks and services.

3. Review the specifications for the object.

4. Prepare the material for welding.

5. Perform the required welds.

6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

TASK: 1316.04.06 (CORE PLUS) WELD ARMOR PLATE WITH GAS METAL ARC WELDING EQUIPMENT

CONDITION(S): Provided gas metal arc welding equipment, armor plate, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

DUTY AREA 05 - GAS TUNGSTEN ARC WELDING OPERATIONS

TASK: 1316.05.01 (CORE PLUS) WELD CARBON STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT

CONDITION(S): Provided gas tungsten arc welding equipment, carbon steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.05.02 (CORE PLUS) WELD CAST IRON WITH GAS TUNGSTEN ARC WELDING EQUIPMENT

CONDITION(S): Provided gas tungsten arc welding equipment, cast iron, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.05.03 (CORE) WELD ALLOY STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT

CONDITION(S): Provided gas tungsten welding equipment, alloy steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.05.04 (CORE) WELD ALUMINUM WITH GAS TUNGSTEN ARC WELDING EQUIPMENT

CONDITION(S): Provided gas tungsten arc welding equipment, aluminum, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform operations checks and services.

3. Review the specifications for the object.

4. Prepare the material for welding.

5. Perform the required welds.

6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

TASK: 1316.05.05 (CORE) WELD STAINLESS STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT

CONDITION(S): Provided gas tungsten arc welding equipment, stainless steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform operations checks and services.

3. Review the specifications for the object.

4. Prepare the material for welding.

5. Perform the required welds.

6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 9-237, Welding Theory and Application

TASK: 1316.05.06 (CORE PLUS) WELD CAST STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT

CONDITION(S): Provided gas tungsten arc welding equipment, cast steel, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.05.07 (CORE) WELD TITANIUM WITH GAS TUNGSTEN ARC WELDING EQUIPMENT

CONDITION(S): Provided a welding facility, gas tungsten arc welding equipment, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review specifications for the job.
4. Prepare the material for welding.
5. Perform the required welds.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. Modern Welding dtd 1997
3. TM 9-237, Welding Theory and Application

DUTY AREA 06 - WELDING SHOP OPERATIONS

TASK: 1316.06.01 (CORE) FABRICATE SPECIAL TOOLS AND METAL OBJECTS

CONDITION(S): Provided welding/cutting equipment, fabricate material, job specifications, welding materials, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Establish measurements and dimensions.
5. Draw pattern(s).
6. Select materials.
7. Prepare the material.
8. Perform required cuts and welds to fabricate the object.
9. Perform after operation checks and services.
10. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 9-237, Welding Theory and Application

TASK: 1316.06.02 (CORE) PERFORM FOREHAND/BACKHAND WELDING

CONDITION(S): Provided a welding facility, welding equipment, metal, and the reference.

STANDARD(S): To meet job specifications per the reference.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.

4. Prepare the material for welding.

5. Perform the required welds.

6. Perform after operation checks and services.

7. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-237, Welding Theory and Application

DISTANCE LEARNING PRODUCT(S):

1. MCI 1332, Metal Working and Welding Operations

TASK: 1316.06.03 (CORE) PERFORM IDENTIFICATION TESTS ON METAL

CONDITION(S): Provided necessary tools, metal to be tested, and the reference.

STANDARD(S): To determine material type per the reference.

PERFORMANCE STEPS:

1. Set up the equipment.

2. Perform operations checks.

3. Test the metal.

4. Secure the equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-237, Welding Theory and Application

DISTANCE LEARNING PRODUCT(S):

1. MCI 1332, Metal Working and Welding Operations

TASK: 1316.06.04 (CORE) PERFORM INTERMITTENT BACKSTEP WELDING

CONDITION(S): Provided a welding facility, welding equipment, metal, and the reference.

STANDARD(S): To meet job specifications per the reference.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Prepare the material for welding.
3. Perform welding operations.
4. Perform welding checks.
5. Secure the welding equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 9-237, Welding Theory and Application

TASK: 1316.06.05 (CORE PLUS) PERFORM SHEET METAL OPERATIONS

CONDITION(S): Given a welding facility, job specifications, materials, tools, and the reference.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks.
3. Determine bill of materials.
4. Draw pattern(s).
5. Lay out pattern(s).
6. Prepare the material.
7. Perform sheet metal operations.
8. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. TM 9-237, Welding Theory and Application

TASK: 1316.06.06 (CORE PLUS) PERFORM CORROSION PREVENTION AND CONTROL

CONDITION(S): Given an item, required safety equipment, materials, appropriate tools, and the reference.

STANDARD(S): To maintain equipment in operational condition per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Identify discrepancies.
3. Perform necessary corrective action to prevent corrosion and deterioration.
4. Properly dispose of waste.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 3080-50, Corrosion Control Procedures for Depot Maintenance Activities

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TASK: 1316.06.07 (CORE PLUS) CONSTRUCT SHEET METAL OBJECTS

CONDITION(S): Provided sheet metal working tools, sheet metal, materials, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Perform operations checks and services.
3. Draw pattern(s).
4. Lay out the pattern(s).
5. Prepare the material.
6. Perform the required cuts and folds to fabricate the object.
7. Assemble the object.
8. Perform after operation checks and services.
9. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. Sheet Metal Shop Practices

TASK: 1316.06.08 (CORE PLUS) REPAIR SHEET METAL OBJECTS

CONDITION(S): Provided sheet metal working tools, sheet metal, materials, an object, job specifications, and references.

STANDARD(S): To meet job specifications per the references.

PERFORMANCE STEPS:

1. Set up the equipment.
2. Perform operations checks and services.
3. Review the specifications for the object.
4. Prepare the material.
5. Perform the required cuts and folds to repair the object.
6. Perform after operation checks and services.
7. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. Sheet Metal Shop Practices

DISTANCE LEARNING PRODUCT(S):

1. MCI 1332, Metal Working and Welding Operations

DUTY AREA 07 - RADIATOR/FUEL TANKS

TASK: 1316.07.01 (CORE PLUS) REPAIR RADIATORS/FUEL TANKS

CONDITION(S): Provided oxyacetylene welding equipment, radiator/fuel tank, patching material, solder, flux, soldering iron, water and compressed air supplies, appropriate tools, and references.

STANDARD(S): To ensure welds show proper tinning and bonding, will not leak, and will maintain appropriate pressure per the references.

PERFORMANCE STEPS:

1. Review TM 9-237 and the job specification.
2. Set up welding equipment.
3. Purge the radiator or fuel tank.
4. Clean the radiator or fuel tank.
5. Repair the radiator or fuel tank.
6. Test the radiator or fuel tank for leaks.
7. Perform after operation checks and services.
8. Secure the equipment.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. FM 43-2, Metalbody Repair and Related Operations
2. TM 750-254, Tactical Vehicle Cooling System
3. TM 9-237, Welding Theory and Application

DUTY AREA 08 - WELDING EQUIPMENT RECORDS

TASK: 1316.08.01 (CORE) COMPLETE CONSOLIDATED ENGINEER EQUIPMENT OPERATOR LOG AND SERVICE RECORD (NAVMC 10524)

CONDITION(S): Provided an item of engineer equipment, Consolidated Engineer Equipment Operator Log and Service Record (NAVMC 10524), Motor Vehicle and Engineer Equipment Record Folder (NAVMC 696D), and references.

STANDARD(S): To maintain engineer equipment records per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Review the Consolidated Engineer Equipment Operator Log and Service Record (NAVMC 10524).

3. Annotate operator's entries as necessary.

4. Return completed Consolidated Engineer Equipment Operator Log and Service Record (NAVMC 10524).

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1316.08.02 (CORE) COMPLETE EQUIPMENT REPAIR ORDER AND EQUIPMENT REPAIR ORDER SHOPPING LIST

CONDITION(S): Provided necessary forms [NAVMC 10245/10925], appropriate equipment technical manual(s), and references.

STANDARD(S): To ensure relevant records are completed per type of service performed and the references.

PERFORMANCE STEPS:

1. Review the references.

2. Review equipment technical manual to obtain maintenance information.

3. Complete ERO (NAVMC 10245) or EROSL (NAVMC 10925).

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DUTY AREA 09 - WELDING SHOP OPERATIONS

TASK: 1316.09.01 (CORE) SUPERVISE WELDING OPERATIONS

CONDITION(S): Provided subordinate personnel, welding job specifications, welding equipment, materials, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review references and specifications.
2. Brief welding crew on mission requirements.
3. Observe crew performance.
4. Ensure safety precautions are observed.
5. Ensure product/process meets specifications.
6. Complete required documentation.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures
3. TM 9-237, Welding Theory and Application
4. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1316.09.02 (CORE) SUPERVISE WELDING SHOP INVENTORY

CONDITION(S): Provided a welding shop, welding equipment and tools, subordinate personnel, and references.

STANDARD(S): To ensure inventory is conducted per the references.

PERFORMANCE STEPS:

1. Review references.
2. Issue instructions to personnel.
3. Observe inventory in progress.
4. Ensure safe handling of tools and materials.
5. Review discrepancies.

6. Complete required documentation.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. MCO P4790.2, MIMMS Field Procedures Manual

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1316.09.03 (CORE) SUPERVISE WELDING SHOP PREVENTIVE MAINTENANCE PROGRAM

CONDITION(S): Provided items of equipment, appropriate tools, equipment records/forms, appropriate technical manuals, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review references.

2. Perform appropriate operator's preventive maintenance.

3. Document maintenance action as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1316.09.04 (CORE) MAINTAIN ENGINEER EQUIPMENT RECORDS AND FORMS

CONDITION(S): Provided items of engineer equipment, [NAVMC 696D/10523/10245/10560/10524/10561/10925] and references.

STANDARD(S): To meet mission requirements per the references.

PERFORMANCE STEPS:

1. Review references.

2. Determine records and forms required NAVMC 696D (Record Jacket), NAVMC 10523 (Engineer Equipment Operational Record), NAVMC 10245 (ERO), NAVMC 10560 (Worksheet for Preventive Maintenance and Technical Inspections for Engineer Equipment), NAVMC 10524 (Engineer Equipment Operation Log and Service Record),

NAVMC 10561 (Preventive Maintenance Checks and Services Roster), NAVMC 10925 (EROSL).

3. Prepare records and forms.

4. Maintain records and forms.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: SSgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1316.09.05 (CORE) REVIEW DAILY PROCESS REPORT (DPR)

CONDITION(S): Provided Daily Process Report, MIMMS-AIS reports, supporting documentation, and the references.

STANDARD(S): To ensure completeness and accuracy per the requirements of the references.

PERFORMANCE STEPS:

1. Review references.

2. Review Daily Process Report.

3. Identify discrepancies.

4. Initiate corrective action.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DUTY AREA 10 - GENERAL

TASK: 1316.10.01 (CORE) CAMOUFLAGE POSITIONS, VEHICLES, OR EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM

CONDITION(S): Provided a mission, an area, vehicle(s) or equipment, lightweight camouflage screen, and references.

STANDARD(S): To ensure camouflage entirely covers, ties into existing natural or other manmade camouflage, and is not visually detectable more than 200 meters in any direction or from the air per the references.

PERFORMANCE STEPS:

1. Review size of positions, vehicles, or equipment to be camouflaged.

2. Determine required modules of lightweight screen needed.

3. Assemble modules into one net.

4. Place assembled modules over position, vehicles, or equipment to be camouflaged.

5. Ensure appropriate blend is showing.

6. Inspect area frequently and upgrade camouflage as needed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. FM 5-20, Camouflage

2. MCRP 3-17A, Engineer Field Data

ADMINISTRATIVE INSTRUCTIONS: Certain welding procedures for peculiar types of equipment may be outlined in appropriate military standards -- i.e. LAV's, AAV's, and Tanks.

TASK: 1316.10.02 (CORE) CONDUCT INVENTORY OF TOOLS SETS, CHESTS, AND KITS

CONDITION(S): Provided tool sets, chests, kits, and references.

STANDARD(S): To reconcile the inventory list for accountability and serviceability.

PERFORMANCE STEPS:

1. Review references.

2. Conduct inventory.

3. Properly annotate inventory sheet.

4. Take corrective action as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual
2. TM 4700-15/1, Equipment Recording Procedures

MOS 1330, FACILITIES MANAGEMENT OFFICER

DUTY AREA 01 - PROGRAMS, PROJECTS, AND OPERATIONS

TASK: 1330.01.01 (CORE) CHECK HORIZONTAL AND VERTICAL CONSTRUCTION DESIGNS

CONDITION(S): Provided horizontal or vertical construction designs, and references.

STANDARD(S): To ensure Marine Corps engineer standards are met per the references.

PERFORMANCE STEPS:

1. Examine designs for a horizontal or vertical construction project.
2. Resolve any discrepancies in specifications.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 5-412, Project Management
2. TM 5-704, Construction Print Reading in the Field

TASK: 1330.01.02 (CORE) CHECK HORIZONTAL AND VERTICAL CONSTRUCTION ESTIMATES

CONDITION(S): Provided horizontal or vertical construction estimates, materials price quotations, a calculator, and appropriate references.

STANDARD(S): To verify accuracy per the references.

PERFORMANCE STEPS:

1. Examine construction cost estimates.
2. Recalculate construction figures to verify correct cost estimates.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: 2ndLt

REFERENCE(S):

1. FM 5-412, Project Management
2. MCRP 3-17A, Engineer Field Data
3. TM 5-426, Carpentry
4. TM 5-704, Construction Print Reading in the Field

TASK: 1330.01.03 (CORE) INSPECT CONSTRUCTION PROJECT JOB SITE

CONDITION(S): Provided a documented construction requirement, a construction project site, and the reference.

STANDARD(S): To document all discrepancies, and to give immediate orders for their correction per the reference.

PERFORMANCE STEPS:

1. Review construction requirement.
2. Observe job site activities.
3. Perform inspections.
4. Document any discrepancies noted.
5. Issue corrective orders.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FM 5-412, Project Management

TASK: 1330.01.04 (CORE) MANAGE NATURAL RESOURCES POLICIES AND PROCEDURES

CONDITION(S): Provided an operational setting, Marine Corps directives and the references.

STANDARD(S): To follow policy statements and procedural guidelines; to accomplish requirements, reports, and inspections; and to ensure inspection reports specify deficiencies and corrective actions required.

PERFORMANCE STEPS:

1. Issue policy statements and procedural guidelines to personnel.
2. Issue orders to implement policies.
3. Inspect activities for compliance with policies and adherence to procedures.
4. Issue orders to correct deficiencies.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. Federal, State, and Local Resource Management Guidelines
2. Local SOP

TASK: 1330.01.05 (CORE PLUS) ADJUST FACILITIES UTILIZATION REQUIREMENTS

CONDITION(S): Provided a change in facilities utilization requirements, a Naval Facilities Assets Data Base List (NFADBL), a current T/O for the unit, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the facilities utilization requirements.

2. Compare new requirements to those currently supported by T/O.

3. Compare assets included in the new requirements to currently assigned assets in the NADBL or Class 2 plant property list.

4. Identify the required changes in facilities utilization assignments.

5. Prepare a plan to document reassignment of facilities utilization requirements.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.12, Real Property Facilities Management, Vol. II

2. NAVFAC 5-80, Facility Planning Factor Criteria/Shore Installations

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TASK: 1330.01.06 (CORE PLUS) ANALYZE BACK-ORDER MAINTENANCE AND REPAIR (BMAR) TO DETERMINE DISCREPANCIES

CONDITION(S): Provided two consecutive BMAR reports, an annotated facilities maintenance work plan, annual inspection reports, and references.

STANDARD(S): To identify discrepancies present in the current BMAR report per the reference.

PERFORMANCE STEPS:

1. Review MCO P11000.7, Chapter 5.

2. Review each BMAR report.

3. Review the annotated facilities maintenance work plan.

4. Review the annual inspection reports.

5. Compare the project information included on all documents to identify new work projects improperly included on the current BMAR, projects included on either or both of the BMAR reports which are not valid maintenance and repair projects, and projects which have been completed but not removed from the current BMAR.

6. Document discrepancies for the current BMAR report.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.16, Real Property Facilities Management, Vol. I

2. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1330.01.07 (CORE PLUS) APPROVE MAINTENANCE JOB ORDERS/WORK REQUESTS

CONDITION(S): Provided maintenance job orders, an annual work plan, budget documents, local SOPs and documented guidance, and the reference.

STANDARD(S): To ensure local budget requirements and support maintenance requirements of the installation are met per the reference.

PERFORMANCE STEPS:

1. Review local SOPs and documented guidance for job orders/work requests.

2. Review each job order/work request.

3. Determine if each job order/work request is new work or continued maintenance.

4. Compare new work to budget documents to determine if job orders/work requests are within budget.

5. Compare maintenance and repair job orders/work requests to the annual work plan to determine if they have been included.

6. Determine whether job orders/work requests not included on the annual work plan may be picked up through contingency plans.

7. Document approval of those job orders/work requests which meet budget and facilities maintenance requirements.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1330.01.08 (CORE PLUS) CERTIFY FUNDING OF UTILITY BILLS

CONDITION(S): Provided utility budget documents, utility bills, and references.

STANDARD(S): To meet criteria specified in utility budget documents and funding policies per the references.

PERFORMANCE STEPS:

1. Review each utility bill.
2. Review MCO P11000.9 for funding regulations.
3. Compare each bill to budget documents.
4. Determine if each bill meets the criteria for funding.
5. Report bills which are subject to approval.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. Applicable Marine Corps Orders
2. MCO P11000.9, Real Property Facilities Management, Vol. VI

TASK: 1330.01.09 (CORE PLUS) COORDINATE BEQ/BOQ TEMPORARY HOUSING EFFORTS

CONDITION(S): Provided a Marine Corps installation, FMF units, and BEQ/BOQ temporary housing policies.

STANDARD(S): To ensure policies are evaluated, revised, and distributed, and that BEQ/BOQ temporary housing efforts support FMF temporary housing needs.

PERFORMANCE STEPS:

1. Distribute BEQ/BOQ temporary housing policies.
2. Review temporary BEQ/BOQ housing reports.
3. Inspect BEQ/BOQ temporary housing activities for compliance with policies.
4. Evaluate BEQ/BOQ policies in writing.
5. Recommend policy improvements in writing.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S): (NONE)

TASK: 1330.01.10 (CORE PLUS) DEVELOP FACILITIES MAINTENANCE INDUSTRIAL HYGIENE PROGRAM

CONDITION(S): Provided a Marine Corps installation, facilities maintenance organization, local industrial hygiene guidelines, and references.

STANDARD(S): To support local policies, procedures, and plans and to ensure anticipation, recognition, evaluation, and control of health hazards per the references.

PERFORMANCE STEPS:

1. Review MCO 5100.8 for program requirements.

2. Review local industrial hygiene guidelines.

3. Identify existing or potential industrial hygiene health hazards within the facilities maintenance work areas.

4. Develop facilities maintenance industrial hygiene program policies and procedures.

5. Publish the facilities maintenance industrial hygiene program plan.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. 29 CFR 1910, Code of Federal Regulations

2. MCO P11000.7, Real Property Facilities Management, Vol. III

3. MCO P5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program Manual

4. OPNAVINST 5100.23, Navy Occupational Safety and Health Program Manual

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TASK: 1330.01.11 (CORE PLUS) DEVELOP FACILITIES CONSTRUCTION TIME PHASING PLAN

CONDITION(S): Provided the Naval Facilities Assets Data Base List (NFADBL), Minor Construction List (MCON), a diagram of the Marine Corps installation, and references.

STANDARD(S): To provide for movement of functions with minimal disruption of normal operations per the references.

PERFORMANCE STEPS:

1. Review MCON to identify projects requiring time phasing plans.

2. Identify buildings and functions affected by construction requirements.

3. Document plan of occupancy for functions affected by construction projects.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.5, Real Property Facilities Management, Vol. IV

2. NAVFAC 5-80, Facility Planning Factor Criteria/Shore Installations

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TASK: 1330.01.12 (CORE PLUS) DEVELOP MAJOR FACILITIES REPAIR PROJECTS PROGRAM

CONDITION(S): Provided a Marine Corps activity, Back-Order Maintenance and Repair (BMAR), local Marine Corps directives, SOPs, and references.

STANDARD(S): To define repair project priorities and projected accomplishments per the references.

PERFORMANCE STEPS:

1. Review references to determine local procedures for projects classified as major repair.

2. Review the BMAR.

3. Identify BMAR projects suitable for contract accomplishment.

4. Identify projects of a dollar amount significant enough to warrant their inclusion in the major facilities repair projects program.

5. Document major repair projects to be included in the program.

6. Document priorities and projected accomplishments of the program.

7. Establish procedures to implement the major facilities repair projects program.

8. Prepare major facilities repair program plan.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.12, Real Property Facilities Management, Vol. II

2. MCO P11000.5, Real Property Facilities Management, Vol. IV

3. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1330.01.13 (CORE PLUS) ESTABLISH AN ENCROACHMENT CONTROL PROGRAM

CONDITION(S): Provided a Marine Corps installation, local encroachment control guidance and encroachment issues, and references.

STANDARD(S): To support acquisition, retention, and maintenance of property or facilities required for military operations per the references.

PERFORMANCE STEPS:

1. Review MCO 11011.22 for program requirements.

2. Review local encroachment control guidance.

3. Analyze installation requirements for successful conduct of required military operations.

4. Determine impact of encroachment issues.

5. Determine encroachment policies and procedures required.

6. Write local encroachment control directive(s) to document policies and procedures required.

7. Promulgate encroachment control policies and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO 11011.22, Encroachment Control

2. MCO P11000.12, Real Property Facilities Management, Vol. II

3. MCO P11000.14, Real Property Facilities Management, Vol. IX

TASK: 1330.01.14 (CORE PLUS) ESTABLISH ENERGY CONSERVATION PROGRAM

CONDITION(S): Provided a Marine Corps installation; local directives and SOPs; federal, state, and local energy conservation documents; and references.

STANDARD(S): To support energy conservation goals per the references.

PERFORMANCE STEPS:

1. Review references for program requirements.

2. Review local energy conservation guidance.

3. Write local energy conservation directive(s).

4. Develop the energy conservation program plan.

5. Publish the energy conservation program plan.

6. Implement energy conservation techniques.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.9, Real Property Facilities Management,

Vol. VI

TASK: 1330.01.15 (CORE PLUS) ESTABLISH LOCAL FACILITIES MAINTENANCE SELF-HELP POLICIES AND PROCEDURES

CONDITION(S): Provided a Marine Corps installation, local Marine Corps directives, and the reference.

STANDARD(S): To provide a system for requesting, approving, and monitoring maintenance, repair, and minor construction work of a limited nature per the reference.

PERFORMANCE STEPS:

1. Review MCO P11000.7, Chapter 1, Section 1201 for guidance.

2. Identify local real property maintenance requirements for a self-help program.

3. Identify maintenance tasks to be accomplished through self-help work.

4. Define local procedures for self-help program participation and for program monitoring.

5. Develop a local directive to outline the self-help program for the installation.

6. Distribute self-help program policies and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1330.01.16 (CORE PLUS) EVALUATE FACILITIES UTILIZATION POLICIES

CONDITION(S): Provided a facilities utilization directive for a Marine Corps installation, utilization data for like facilities, and references.

STANDARD(S): To ensure policy descriptions, background information, current problems with application, proposed courses of action, and recommendations are included to support equitable distribution of assets per the references.

PERFORMANCE STEPS:

1. Review utilization data.

2. Inspect facilities affected by installation policies.

3. Document advantages and disadvantages of installation policies.

4. Determine if reassignment or centralized management is required for more equitable distribution of assets.

5. Write a facilities utilization policy evaluation.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FMFM 3-1, Command and Staff Action

2. MCO P11000.14, Real Property Facilities Management, Vol. IX

3. NAVFAC 5-80, Facility Planning Factor Criteria/Shore Installations

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TASK: 1330.01.17 (CORE PLUS) PERFORM A FACILITIES ACCEPTANCE INSPECTION

CONDITION(S): Provided a contracted facilities construction, repair, or maintenance project, and the reference.

STANDARD(S): To complete signed statements of recommended command acceptance, and to identify and document maintenance problems per the reference.

PERFORMANCE STEPS:

1. Review project requirements.

2. Inspect facilities project site.

3. Sign a statement of recommended command acceptance for facilities approved.

4. Document projects with maintenance problems requiring corrective action.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1330.01.18 (CORE PLUS) PREPARE BUDGET ESTIMATES FOR FACILITIES MAINTENANCE TASKS, REPAIR TASKS, AND FACILITIES OPERATION

CONDITION(S): Provided continual maintenance historical cost and performance data, specific maintenance and repair tasks identified on the Long Range Maintenance Plan (LRMP), utilities operation historical costs and utilities targets, engineering support historical cost and performance data for a specific organization or organizations, the Annual Facilities Maintenance Plan, a Facilities Support Requirement (FSR) document, and references.

STANDARD(S): To reflect projected dollar amounts required to fund the authorized labor force, projected utilities purchase and production, and all contract work identified in the Annual Facilities Maintenance Plan per the references.

PERFORMANCE STEPS:

1. Review the Facilities Support Requirement (FSR).

2. Review all historical costs and performance data.

3. Analyze requirements of specific maintenance and repair tasks included on the LMRP and contract work identified in the Annual Facilities Maintenance Plan.

4. Analyze requirements for purchase and production of utilities.

5. Determine dollar amounts required to fund the authorized labor force for maintenance and repair tasks.

6. Determine dollar amounts required to fund contract work.

7. Determine base dollar amounts required to fund purchase and production of utilities.

8. Prepare a budget estimate for facilities maintenance tasks, repair tasks, and facilities operations.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.5, Real Property Facilities Management, Vol. IV

2. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1330.01.19 (CORE PLUS) RECONCILE FACILITIES SUPPORT REQUIREMENT (FSR) OCCUPANCY NUMBERS WITH FAMILY HOUSING SURVEY OCCUPANCY NUMBERS

CONDITION(S): Provided an FSR, a summary of the Family Housing Survey, and reference.

STANDARD(S): To document discrepancies between projected and actual occupancy numbers per the reference.

PERFORMANCE STEPS:

1. Review the FSR.

2. Review the Family Housing Survey.

3. Compare FSR occupancy numbers to the Family Housing Survey Occupancy numbers.

4. Document differences between the projected occupancy reported in the FSR and the actual occupancy reported in the Family Housing Survey.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.12, Real Property Facilities Management, Vol. II

TASK: 1330.01.20 (CORE PLUS) REVIEW THE BACHELOR HOUSING REPORT

CONDITION(S): Provided two consecutive monthly Bachelor Housing Reports.

STANDARD(S): To document variations in occupancy rates.

PERFORMANCE STEPS:

1. Review each of the Bachelor Housing Reports.

2. Compare the data included on each of the Bachelor Housing Reports.

3. Document the major differences between these reports, including major changes and abnormal occupancy rates.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S): (NONE)

TASK: 1330.01.21 (CORE PLUS) SUPERVISE PERSONNEL PERFORMING FACILITIES MAINTENANCE, REPAIR, OR MINOR CONSTRUCTION DUTIES

CONDITION(S): Provided a facilities maintenance job order, military and civilian facilities maintenance personnel, and reference.

STANDARD(S): To comply with personnel management policies and procedures in Marine Corps directives, civilian labor agreements, and/or other employment contracts or regulations per the reference.

PERFORMANCE STEPS:

1. Analyze requirements included in the job order.

2. Issue orders to facilities personnel, as applicable, to initiate and continue work.

3. Visually inspect the project site.

4. Issue applicable corrective orders to facilities personnel.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1330.01.22 (CORE PLUS) TRANSLATE FACILITIES SUPPORT REQUIREMENT (FSR) INTO BASIC FACILITIES REQUIREMENT LIST (BFRL)

CONDITION(S): Provided the FSR, necessary forms and references.

STANDARD(S): To include all essential facilities required to perform mission tasks, functions, and workload per the references.

PERFORMANCE STEPS:

1. Review the FSR.

2. Refer to applicable category codes.

3. Prepare the BFRL Item Determination Sheet (NAVMC 10915).

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.12, Real Property Facilities Management, Vol. II

2. NAVFAC P-72, Category Codes for Specifying Real Property of the Navy

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TASK: 1330.01.23 (CORE PLUS) RECOMMEND BASIC FACILITIES REQUIREMENT LIST (BFRL) CHANGES

CONDITION(S): Provided the BFRL, a change in requirements for a BFRL item, a Facilities Support Requirement (FSR) document, and references.

STANDARD(S): To include descriptions of and justifications for recommended changes based on the FSR or other rationale, and to reflect minimum actual needs for facilities per the references.

PERFORMANCE STEPS:

1. Analyze change in requirements for the affected BFRL item.

2. Review applicable related data in the FSR document.

3. Review planning factors criteria.

4. Identify impact of the change.

5. Identify FSR data or basic rationale to justify the change.

6. Prepare a verbal or written BFRL change recommendation.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.12, Real Property Facilities Management, Vol. II

2. NAVFAC 5-80, Facility Planning Factor Criteria/Shore Installations

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TASK: 1330.01.24 (CORE PLUS) RECOMMEND A FACILITIES DESIGN CHANGE

CONDITION(S): Provided a facilities design document and specifications, a design deficiency, and references.

STANDARD(S): To include description of and justification for the design change, and its impact on the associated project budget and schedule per the references.

PERFORMANCE STEPS:

1. Review the facilities design document and the project specifications.

2. Study the design deficiency.

3. Determine design change required to correct the deficiency.

4. Identify impact of the design change on project budget and schedule.

5. Recommend a facilities design change.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.5, Real Property Facilities Management, Vol. IV

2. NAVFAC 5-80, Facility Planning Factor Criteria/Shore Installations

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TASK: 1330.01.25 (CORE PLUS) RECOMMEND FACILITIES MANAGEMENT PROCEDURE CHANGES

CONDITION(S): Provided facility management procedures, facilities functions, and references.

STANDARD(S): To include a description of and justification for the change, and a suggested course of action for accomplishing the change per the applicable references.

PERFORMANCE STEPS:

1. Study the procedure requiring change.

2. Review guidance in the applicable MCO P11000 series publication.

3. Determine the scope of change required.

4. Determine impact of the change.

5. Determine change implementation process.

6. Recommend a facilities management procedure change.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FMFM 3-1, Command and Staff Action

2. MCO P11000, Series Publications

TASK: 1330.01.26 (CORE PLUS) RECOMMEND MINOR CONSTRUCTION PROJECT PRIORITIES

CONDITION(S): Provided Military Construction Project Data sheets (DD Form 1391), the Basic Facilities Requirement List (BFRL), statements of need from local Marine Corps functions, and references.

STANDARD(S): To indicate order of and written justification for priorities assigned to support timely completion of projects essential to local missions and operations per the references.

PERFORMANCE STEPS:

1. Study the Military Construction Project Data sheets.

2. Review the BFRL.

3. Analyze statements of need from each Marine Corps function.

4. Write a recommendation to list minor construction projects in priority order.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.12, Real Property Facilities Management, Vol. II

2. MCO P11000.5, Real Property Facilities Management, Vol. IV

3. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1330.01.27 (CORE PLUS) ANALYZE AN ENVIRONMENTAL IMPACT ISSUE

CONDITION(S): Provided an environmental impact issue; local, state, and federal environmental control regulations; local Marine Corps directives; SOPs; and references.

STANDARD(S): To identify actions affecting the environment and appropriate facilities action per local, state, and federal regulations, local guidance, and references.

PERFORMANCE STEPS:

1. Review the issue.

2. Review local, state, and federal regulations.

3. Review local guidance.

4. Review MCO P11000.8 guidance.

5. Determine impact of the issue.

6. Document significant or controversial actions related to the issue.

7. Document facilities action required relative to the issue.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. Applicable Marine Corps Orders

2. Appropriate Reference Materials

TASK: 1330.01.28 (CORE PLUS) ANALYZE FAMILY HOUSING INCIDENTS FOR FACILITIES ACTION

CONDITION(S): Provided incident reports and applicable Provost Marshal documents.

STANDARD(S): To ensure recommendation/action is appropriate to incident frequency or severity.

PERFORMANCE STEPS:

1. Review incident reports.

2. Review all Provost Marshal documents.

3. Determine the level/frequency of the offense.

4. Write a recommendation for facilities action.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S): (NONE)

TASK: 1330.01.29 (CORE PLUS) CONDUCT FACILITIES ALLOCATION STUDY

CONDITION(S): Provided a facilities allocation study requirement, supporting documentation, and references.

STANDARD(S): To collect information concerning reasonable need and fair allocation of Marine Corps facilities per the references.

PERFORMANCE STEPS:

1. Review facilities planning factor criteria.

2. Develop facilities allocation study requirements.

3. Distribute facilities allocation study requirements.

4. Review progress reports.

5. Inspect facilities allocation study activities.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. FMFM 3-1, Command and Staff Action

2. NAVFAC 5-80, Facility Planning Factor Criteria/Shore Installations

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TASK: 1330.01.30 (CORE PLUS) RECOMMEND NEW BUILDING SITE LOCATION

CONDITION(S): Provided the installation master plan, a construction requirement, and the reference.

STANDARD(S): To ensure construction requirements are compatible with the installation master plan per the reference.

PERFORMANCE STEPS:

1. Review the construction requirement.

2. Examine the master plan and supporting documentation.

3. Inspect potential construction sites.

4. Recommend potential sites for new construction.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.12, Real Property Facilities Management, Vol. II

TASK: 1330.01.31 (CORE PLUS) MANAGE HAZARDOUS WASTE CLEANUP AND DISPOSAL PROGRAM

CONDITION(S): Provided a Marine Corps installation, FMF units, local Marine Corps directives, SOPs, and references.

STANDARD(S): To comply with local program policies and procedures per the references.

PERFORMANCE STEPS:

1. Review hazardous waste cleanup and disposal policies.

2. Distribute hazardous waste cleanup and disposal policies and procedures to personnel.

3. Issue orders for hazardous waste cleanup and disposal activities.

4. Inspect hazardous waste cleanup and disposal activities.

5. Issue orders to correct deficiencies.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1330.01.32 (CORE PLUS) VERIFY MAINTAINABILITY OF FACILITIES DESIGNS

CONDITION(S): Provided a facilities design, use of background documentation of good and bad design performers, and the reference.

STANDARD(S): To reflect maintainability per available materials and maintenance services, and the reference.

PERFORMANCE STEPS:

1. Review the facilities design.

2. Compare new/remodeled facilities design to designs of known good and bad performers.

3. Identify the maintainability requirements posed by the design.

4. Document new/remodeled design compatibility with available materials and maintenance services.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: 2ndLt

REFERENCE(S):

1. MCO P11000.7, Real Property Facilities Management, Vol. III

MOS 1341, ENGINEER EQUIPMENT MECHANIC

DUTY AREA 01 - NON-EQUIPMENT OPERATIONAL PROCEDURES

TASK: 1341.01.01 (CORE PLUS) COMPLETE EQUIPMENT REPAIR ORDER (ERO) AND EQUIPMENT REPAIR ORDER SHOPPING LIST (EROSL)

CONDITION(S): Provided ERO and EROSL data, appropriate equipment technical manual(s), and the references.

STANDARD(S): To reflect data per type of service performed and the references.

PERFORMANCE STEPS:

1. Review the references.

2. Review equipment technical manual to obtain maintenance information.

3. Complete required mechanic's entries for ERO and/or EROSL.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0410, MIMMS (AIS)

TASK: 1341.01.02 (CORE PLUS) COMPLETE THE WORKSHEET FOR PREVENTIVE MAINTENANCE AND TECHNICAL INSPECTION FOR ENGINEER EQUIPMENT (NAVMC 10560)

CONDITION(S): Provided necessary forms, template item of equipment, and the references.

STANDARD(S): To reflect condition of the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Review NAVMC 10560 template.

3. Complete required mechanic's entries for NAVMC 10560.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.01.03 (CORE) MAINTAIN ERO LAYETTES

CONDITION(S): Provided EROs, EROSL repair parts, ERO layettes, and the references.

STANDARD(S): To ensure repair parts are kept in the appropriate layettes and available for timely maintenance of engineer equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Maintain EROSL in the appropriate layettes.

3. Receive repair parts, annotate EROSL, and place repair part in appropriate layette.

4. Take corrective action if repair part does not match EROSL.

5. Issue repair parts, and annotate EROSL.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1341.01.04 (CORE) MAINTAIN PRE-EXPENDED BINS

CONDITION(S): Provided pre-expended bins; low cost, high-usage hardware items; and the reference.

STANDARD(S): To ensure bins are stocked for timely maintenance of engineer equipment per the reference.

PERFORMANCE STEPS:

1. Review the reference.

2. Separate items by NSN into separate boxes, compartments, or containers labeled with the NSN.

3. Ensure each use of an item is recorded, and the item is reordered when needed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

TASK: 1341.01.05 (CORE) COMPLETE CALIBRATION CONTROL RECORD

CONDITION(S): Provided calibration control record data, appropriate calibration control record, and the reference.

STANDARD(S): To maintain calibration data per the reference.

PERFORMANCE STEPS:

1. Review the reference.

2. Review the appropriate Calibration Control Record.

3. Annotate Calibration Control Record as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.01.06 (CORE) CAMOUFLAGE POSITIONS, VEHICLES, OR EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM

CONDITION(S): Provided a mission, an area, vehicle(s) or equipment, lightweight camouflage screen, and references.

STANDARD(S): To prevent detection from 200 meters or more in any direction or from the air per the references.

PERFORMANCE STEPS:

1. Review size of positions, vehicles, or equipment to be camouflaged.

2. Determine required modules of lightweight screen needed.

3. Assembled modules into one net.

4. Place assembled modules over position, vehicles, or equipment to be camouflaged.

5. Ensure appropriate blend is showing.

6. Tie into existing natural or other manmade camouflage.

7. Inspect area frequently and upgrade camouflage as needed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. FM 5-20, Camouflage
2. MCRP 3-17A, Engineer Field Data

TASK: 1341.01.07 (CORE) CONDUCT INVENTORY OF TOOLS SETS, CHESTS, AND KITS

CONDITION(S): Provided tools sets, chests, kits, and references.

STANDARD(S): To reconcile inventory records for accountability and serviceability per the references.

PERFORMANCE STEPS:

1. Review references.
2. Conduct inventory.
3. Properly annotate inventory sheet.
4. Take corrective actions as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TM 4700-15/1, Equipment Recording Procedures

DUTY AREA 02 - PREVENTIVE MAINTENANCE

TASK: 1341.02.01 (CORE) PERFORM PREVENTIVE MAINTENANCE

CONDITION(S): Provided ERO, item of equipment, applicable tools, equipment records, and references.

STANDARD(S): To meet maintenance requirements per the references.

PERFORMANCE STEPS:

1. Review references.
2. Review ERO.
3. Perform applicable preventive maintenance services.
4. Initiate EROSL if required.
5. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.02.02 (CORE) USE TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT

CONDITION(S): Provided Test Measurement and Diagnostic Equipment (TMDE), appropriate tools, an item of equipment, and the references.

STANDARD(S): To diagnose engineer equipment faults per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Determine appropriate system checks.
3. Perform the system check.
4. Identify applicable preventive maintenance services.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. Appropriate TMDE Technical Publications

DUTY AREA 03 - CORRECTIVE MAINTENANCE

TASK: 1341.03.01 (CORE) PERFORM CORRECTIVE MAINTENANCE ON ENGINEER EQUIPMENT

CONDITION(S): Provided an item of engineer equipment, ERO, appropriate tools, equipment records, and references.

STANDARD(S): To return equipment to serviceable condition per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review the references.
3. Perform applicable corrective maintenance services.
4. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.02 (CORE) REPAIR EQUIPMENT INTAKE EXHAUST SYSTEM

CONDITION(S): Provided an ERO, malfunctioning intake/exhaust system, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review the ERO.
2. Review the references.
3. Diagnose malfunction.
4. Initiate EROSL, if necessary.
5. Adjust, disassemble, or repair unserviceable part(s).
6. Test repaired system.
7. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.03 (CORE) REPAIR AIR COMPRESSOR SYSTEM

CONDITION(S): Provided an ERO, malfunctioning air compressor system, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review references.
3. Diagnose malfunction.
4. Initiate EROSL, if necessary.
5. Adjust, disassemble, or repair unserviceable part(s).
6. Test repaired system.
7. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.04 (CORE) REPAIR EQUIPMENT BRAKE SYSTEM

CONDITION(S): Provided an ERO, brake system, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review references.
3. Diagnose malfunction.

4. Initiate EROSL, if necessary.

5. Adjust, disassemble, or repair unserviceable part(s).

6. Test repaired system.

7. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.05 (CORE) REPAIR EQUIPMENT COOLANT SYSTEM

CONDITION(S): Provided an ERO, malfunctioning coolant system, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review ERO.

2. Review references.

3. Diagnose malfunction.

4. Initiate EROSL, if necessary.

5. Adjust, disassemble, or repair unserviceable part(s).

6. Test repaired system.

7. Document maintenance action.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.06 (CORE) REPAIR EQUIPMENT ELECTRICAL SYSTEM

CONDITION(S): Provided an ERO, malfunctioning electrical system, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review references.
3. Diagnose malfunction.
4. Initiate EROSL, if necessary.
5. Adjust, disassemble, or repair unserviceable part(s).
6. Test repaired system.
7. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.07 (CORE) REPAIR EQUIPMENT ENGINE ASSEMBLY

CONDITION(S): Provided an ERO, malfunctioning engine assembly, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review references.
3. Diagnose malfunction.
4. Initiate EROSL, if necessary.
5. Adjust, disassemble, or repair unserviceable part(s).
6. Test repaired engine assembly.
7. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.08 (CORE) REPAIR EQUIPMENT HYDRAULIC SYSTEM

CONDITION(S): Provided an ERO, malfunctioning hydraulic system, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review references.
3. Diagnose malfunction.
4. Initiate EROSL, if necessary.
5. Adjust, disassemble, or repair unserviceable part(s).
6. Test repaired system.
7. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.09 (CORE) REPAIR EQUIPMENT FUEL SYSTEM

CONDITION(S): Provided an ERO, malfunctioning fuel system, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review references.
3. Diagnose malfunction.

4. Initiate EROSL, if necessary.

5. Adjust, disassemble, or repair unserviceable part(s).

6. Test repaired system.

7. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.10 (CORE PLUS) REPAIR CHAIN SAW

CONDITION(S): Provided an ERO, malfunctioning chain saw engine, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review ERO.

2. Review references.

3. Diagnose malfunction.

4. Initiate EROSL, if necessary.

5. Adjust, disassemble, or repair unserviceable part(s).

6. Test repaired chain saw.

7. Document maintenance actions.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Manufacturer's Manual

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.11 (CORE) OVERHAUL DIESEL ENGINES

CONDITION(S): Provided an ERO, a malfunctioning diesel engine, appropriate tools and equipment, a complete layette, equipment records, and the references.

STANDARD(S): To ensure efficient operation with a +/- 5 percent tolerance to the criteria listed in the references.

PERFORMANCE STEPS:

1. Review the ERO.
2. Review the references.
3. Disassemble and remove parts to be replaced.
4. Clean parts.
5. Replace parts.
6. Assemble engine.
7. Test repaired engine.
8. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. MCO P4790.2, MIMMS Field Procedures Manual

TASK: 1341.03.12 (CORE) PERFORM EQUIPMENT LIMITED TECHNICAL INSPECTION (LTI)

CONDITION(S): Provided an ERO, an item of engineer equipment, appropriate tools, EROSL, Preventive Maintenance and Technical Inspection (LTI) Worksheet, and the references.

STANDARD(S): To ensure equipment conforms to specifications outlined in the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review references.
3. Perform checks indicated on the LTI worksheet (NAVMC 10560).
4. Initiate EROSL, as necessary.
5. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.13 (CORE) ADJUST EQUIPMENT POWER TRAIN COMPONENTS

CONDITION(S): Provided an ERO, malfunctioning power train system, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review the ERO.
2. Review references.
3. Diagnose malfunction.
4. Perform necessary adjustments.
5. Test adjusted system.
6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.14 (CORE) REPAIR ENGINEER EQUIPMENT ATTACHMENTS

CONDITION(S): Provided an ERO, malfunctioning engineer equipment attachment, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review the ERO.
2. Review references.
3. Diagnose malfunction.
4. Initiate EROSL, if required.

5. Adjust, disassemble, or repair unserviceable part(s).

6. Test repaired attachment.

7. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.03.15 (CORE) REPAIR POWER TRAIN SYSTEM

CONDITION(S): Provided an ERO, malfunctioning power train system, appropriate tools, and references.

STANDARD(S): To restore proper function per the references.

PERFORMANCE STEPS:

1. Review ERO.

2. Review references.

3. Diagnose malfunction.

4. Disassemble and remove parts to be replaced.

5. Clean parts.

6. Replace parts.

7. Assemble system.

8. Adjust system.

9. Test repaired equipment.

10. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

DUTY AREA 04 - EQUIPMENT OPERATIONAL PROCEDURES

TASK: 1341.04.01 (CORE PLUS) PERFORM EQUIPMENT OPERATIONAL PROCEDURES

CONDITION(S): Provided a D7G tractor, D7G tractor attachments, appropriate tools, and reference.

STANDARD(S): To install D7g tractor attachments per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Prepare tractor for attachments.
3. Install the attachments.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08757A-14/1, Operation and Maintenance Manual; D7G Tractor

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TASK: 1341.04.02 (CORE PLUS) REPLACE CUTTING EDGE/TEETH ON ENGINEER EQUIPMENT

CONDITION(S): Provided an item of engineer equipment, a 1345 operator to assist, cutting edge/teeth, appropriate tools, and the reference.

STANDARD(S): To restore equipment to full operational condition per the reference.

PERFORMANCE STEPS:

1. Review ERO.
2. Review reference.
3. Ensure old cutting edge/teeth is/are removed.
4. Ensure the new cutting edge/teeth is/are safely installed.
5. Document maintenance action.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

DUTY AREA 05 - RECORDS

TASK: 1341.05.01 (CORE PLUS) COMPLETE COMMODITY MANAGER'S MODIFICATION CONTROL RECORD

CONDITION(S): Provided an item of engineer equipment, Commodity Manager's Modification Control Record (NAVMC 11053/11054), and the references.

STANDARD(S): To record equipment modifications per the references.

PERFORMANCE STEPS:

1. Review references.
2. Examine equipment for modification.
3. Review NAVMC 11053/11054.
4. Complete NAVMC 11053/11054, as required.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Appropriate Modification Instructions
2. Appropriate Stock Lists
3. SL-1-2
4. SL-1-3
5. TM 4700-15/1, Equipment Recording Procedures

TASK: 1341.05.02 (CORE) PREPARE ESTIMATE COST REPAIR WORKSHEET

CONDITION(S): Provided a completed Preventive Maintenance and Technical Inspection (LTI) Worksheet, Estimate Cost Repair Worksheet, and the references.

STANDARD(S): To record cost estimate data per the references.

PERFORMANCE STEPS:

1. Review references.
2. Review the LTI worksheet (NAVMC 10560).
3. Complete the Estimate Cost Repair Worksheet.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: SSgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. Fed Log

3. MCO P4790.2, MIMMS Field Procedures Manual

DUTY AREA 06 - PROGRAMS

TASK: 1341.06.01 (CORE) MAINTAIN PUBLICATIONS

CONDITION(S): Provided with Marine Corps Orders, technical publications, equipment related publications, and the references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review references.
2. Conduct inventory as required.
3. Annotate discrepancies.
4. Take corrective actions as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. Appropriate Stock Lists
2. MCO P4790.2, MIMMS Field Procedures Manual
3. MCO P5215.17, The USMC Tech Pub System
4. MCO P5600.31, Marine Corps Publication and Printing
5. NAVMC 2761, Catalog of Publications

TASK: 1341.06.02 (CORE) REVIEW DAILY PROCESS REPORT (DPR)

CONDITION(S): Provided DPR, supporting documentation, and the references.

STANDARD(S): To ensure completeness and accuracy per the references.

PERFORMANCE STEPS:

1. Review references.
2. Review the DPR.
3. Identify discrepancies.
4. Initiate corrective actions as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual
2. TM 4700-15/1, Equipment Recording Procedures
3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

MOS 1342, SMALL CRAFT MECHANIC

DUTY AREA 01 - PREVENTIVE MAINTENANCE

TASK: 1342.01.01 (CORE) PERFORM SMALL CRAFT SCHEDULED PREVENTIVE MAINTENANCE

CONDITION(S): Provided ERO from owning unit, small craft, applicable tools, small craft records, and references.

STANDARD(S): To meet preventive maintenance requirements per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review proper section of the reference.
3. Perform appropriate preventive maintenance services.
4. Evacuate equipment to higher echelon, if required.
5. Initiate EROSL, if required.
6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Service Manuals
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.01.02 (CORE) OPERATE TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE) FOR SMALL CRAFT

CONDITION(S): Provided TMDE, applicable tools, small craft equipment, and the reference.

STANDARD(S): To detect faults and prevent system damage or failure per the reference.

PERFORMANCE STEPS:

1. Troubleshoot electrical system.
2. Perform vacuum and pressure test.
3. Perform compression test.
4. Evacuate equipment to higher echelon, if required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate TMDE Technical Publications

DUTY AREA 02 - CORRECTIVE MAINTENANCE

TASK: 1342.02.01 (CORE) PERFORM CORRECTIVE MAINTENANCE ON SMALL CRAFT

CONDITION(S): Provided ERO from owning unit, small craft, applicable tools, small craft records, and references.

STANDARD(S): To meet corrective maintenance requirements per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review proper sections of the references.
3. Perform applicable maintenance services.
4. Evacuate equipment to higher echelon, if required.
5. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Service Manuals
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.02 (CORE) CONDUCT LIMITED TECHNICAL INSPECTION (LTI) ON SMALL CRAFT

CONDITION(S): Provided an ERO from owning unit, small craft, applicable tools, LTI worksheet, and references.

STANDARD(S): To document missing or unserviceable components per the references.

PERFORMANCE STEPS:

1. Perform all checks indicated on the LTI sheet.
2. Document discrepancies in equipment records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Rigid Raiding Craft Operators Manual
2. TM 09557A-14/1A, System Manual for the Riverine Assault Craft
3. TM 09665A-13&P/1-1, Operation and Maintenance of the Combat Rubber Reconnaissance Craft

4. TM 5-1940-277-20, Bridge Erection Boat Organizational Maintenance Manual

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TASK: 1342.02.03 (CORE) CONDUCT LIMITED TECHNICAL INSPECTION (LTI) ON SMALL CRAFT TRAILERS

CONDITION(S): Provided an ERO from owning unit, small craft trailer, applicable tools, LTI worksheet, and references.

STANDARD(S): To document missing or unserviceable components per the references.

PERFORMANCE STEPS:

1. Perform all checks indicated on the LTI sheet.

2. Document discrepancies in equipment records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.04 (CORE) CONDUCT LIMITED TECHNICAL INSPECTION (LTI) OF SMALL CRAFT OUTBOARD ENGINES

CONDITION(S): Provided an ERO from owning unit, small craft outboard engine(s), applicable tools, LTI worksheet, and references.

STANDARD(S): To document missing or unserviceable components per the references.

PERFORMANCE STEPS:

1. Perform all checks indicated on the LTI sheet.

2. Document discrepancies in equipment records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals

2. TM 08509B-14, OMC (D) Model 35 HP Outboard

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.05 (CORE) REPAIR PROPULSION SYSTEM

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning marine propulsion system, applicable tools, repair parts, and references.

STANDARD(S): To restore propulsion system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.
3. Initiate EROSL, if necessary.
4. Replace parts.
5. Test repaired equipment.
6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Hamilton Jet Service Manual
2. TM 09737A-14&P, 35 Horse Power IMARS
3. TM 4700-15/1, Equipment Recording Procedures
4. TM 5-1940-227-20, Bridge Boat Organizational Maintenance Manual
5. TM 5-1940-227-20P, Bridge Boat Maintenance Repair Parts
6. TM 5-1940-277-34, Bridge Boat Maintenance Manual
7. TM 5-1940-277-34P, Bridge Boat Maintenance Repair Parts

TASK: 1342.02.06 (CORE) REPAIR SMALL CRAFT ELECTRICAL SYSTEM

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning small craft electrical system, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.
3. Initiate EROSL, if necessary.

4. Replace parts.

5. Test repaired equipment.

6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals

2. TM 08509B-14, OMC (D) Model 35 HP Outboard

3. TM 09557A-14/1A, System Manual for the Riverine Assault Craft

4. TM 4700-15/1, Equipment Recording Procedures

5. TM 5-1940-227-20, Bridge Boat Organizational Maintenance Manual

6. TM 5-1940-227-20P, Bridge Boat Maintenance Repair Parts

7. TM 5-1940-277-34, Bridge Boat Maintenance Manual

8. TM 5-1940-277-34P, Bridge Boat Maintenance Repair Parts

TASK: 1342.02.07 (CORE) REPAIR SMALL CRAFT COOLING SYSTEM

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning small craft cooling system, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.

2. Adjust or repair damaged parts.

3. Initiate EROSL, if necessary.

4. Replace parts.

5. Test repaired equipment.

6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Cummins "B" Series Shop Manual

2. TM 09557A-14/1A, System Manual for the Riverine Assault Craft

3. TM 4700-15/1, Equipment Recording Procedures

4. TM 5-1940-227-20, Bridge Boat Organizational Maintenance Manual

5. TM 5-1940-227-20P, Bridge Boat Maintenance Repair Parts

6. TM 5-1940-277-34, Bridge Boat Maintenance Manual

7. TM 5-1940-277-34P, Bridge Boat Maintenance Repair Parts

TASK: 1342.02.08 (CORE) REPAIR SMALL CRAFT FUEL SYSTEM

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning small craft fuel system, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.

2. Adjust or repair damaged parts.

3. Initiates EROSL, if necessary.

4. Replace parts.

5. Test repaired equipment.

6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Cummins "B" Series Shop Manual

2. TM 09557A-14/1A, System Manual for the Riverine Assault Craft

3. TM 4700-15/1, Equipment Recording Procedures

4. TM 5-1940-227-20, Bridge Boat Organizational Maintenance Manual

5. TM 5-1940-227-20P, Bridge Boat Maintenance Repair Parts

6. TM 5-1940-277-34, Bridge Boat Maintenance Manual

7. TM 5-1940-277-34P, Bridge Boat Maintenance Repair Parts

TASK: 1342.02.09 (CORE) REPAIR SMALL CRAFT AIR INTAKE/EXHAUST SYSTEM

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning small craft 2- and 4- stroke air intake/exhaust system, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.
3. Initiate EROSL, if necessary.
4. Replace parts.
5. Test repaired equipment.
6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Cummins "B" Series Shop Manual
2. TM 09557A-14/1A, System Manual for the Riverine Assault Craft
3. TM 4700-15/1, Equipment Recording Procedures
4. TM 5-1940-227-20, Bridge Boat Organizational Maintenance Manual
5. TM 5-1940-227-20P, Bridge Boat Maintenance Repair Parts
6. TM 5-1940-277-34, Bridge Boat Maintenance Manual
7. TM 5-1940-277-34P, Bridge Boat Maintenance Repair Parts

TASK: 1342.02.10 (CORE) REPAIR SMALL CRAFT STEERING SYSTEM

CONDITION(S): Provided with ERO, competed LTI worksheet, malfunctioning small craft steering system, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.
3. Initiate EROSL, if necessary.

4. Replace parts.

5. Test repaired equipment.

6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Cummins "B" Series Shop Manual

2. OMC Service Manuals

3. TM 08509B-14, OMC (D) Model 35 HP Outboard

4. TM 09557A-14/1A, System Manual for the Riverine Assault Craft

5. TM 4700-15/1, Equipment Recording Procedures

6. TM 5-1940-227-20, Bridge Boat Organizational Maintenance Manual

7. TM 5-1940-227-20P, Bridge Boat Maintenance Repair Parts

8. TM 5-1940-277-34, Bridge Boat Maintenance Manual

9. TM 5-1940-277-34P, Bridge Boat Maintenance Repair Parts

TASK: 1342.02.11 (CORE) REPAIR SMALL CRAFT TRAILER

CONDITION(S): Provided with ERO, completed LTI worksheet, small craft trailer with a malfunctioning electrical system or malfunctioning brake system, applicable tools, repair parts, and references.

STANDARD(S): To restore trailer to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.

2. Adjust or repair damaged parts.

3. Initiate EROSL, if necessary.

4. Replace parts.

5. Test repaired equipment.

6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.12 (CORE) REPAIR CRANKING SYSTEM ON OUTBOARD ENGINE

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning cranking system of outboard motor, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.
3. Initiate EROSL, if necessary.
4. Replace parts.
5. Test repaired equipment.
6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals
2. TM 08509B-14, OMC (D) Model 35 HP Outboard
3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.13 (CORE) REPAIR CAPACITOR DISCHARGE (CD II) IGNITIONS SYSTEM

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning capacitor discharge ignition system, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.
3. Initiate EROSL, if necessary.

4. Replace parts.

5. Test repaired equipment.

6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals

2. TM 08509B-14, OMC (D) Model 35 HP Outboard

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.14 (CORE) REPAIR CHARGING SYSTEM ON OUTBOARD ENGINE

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning outboard motor engine charging system, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.

2. Adjust or repair damaged parts.

3. Initiate EROSL, if necessary.

4. Replace parts.

5. Test repaired equipment.

6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals

2. TM 08509B-14, OMC (D) Model 35 HP Outboard

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.15 (CORE) REPAIR FUEL SYSTEM ON OUTBOARD ENGINE

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning outboard motor fuel system, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.
3. Initiate EROSL, if necessary.
4. Replace parts.
5. Test repaired equipment.
6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals
2. TM 08509B-14, OMC (D) Model 35 HP Outboard
3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.16 (CORE) REPAIR COOLING SYSTEM OF OUTBOARD ENGINE

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning outboard engine cooling system, applicable tools, repair parts, and references.

STANDARD(S): To restore system to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.
3. Initiate EROSL, if necessary.
4. Replace parts.
5. Test repaired equipment.
6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals
2. TM 08509B-14, OMC (D) Model 35 HP Outboard
3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.17 (CORE) REPAIR POWERHEAD ON OUTBOARD ENGINE

CONDITION(S): Provided with ERO, completed LTI worksheet, malfunctioning outboard motor powerhead, applicable tools, repair parts, and the references.

STANDARD(S): To restore powerhead to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.
3. Initiate EROSL, if necessary.
4. Replace parts.
5. Test repaired equipment.
6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals
2. TM 08509B-14, OMC (D) Model 35 HP Outboard
3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.18 (CORE) REPAIR GEARCASE ON OUTBOARD ENGINE

CONDITION(S): Provided an ERO, completed LTI worksheet, malfunctioning gearcase of outboard motor, applicable tools, repair parts, and references.

STANDARD(S): To restore gearcase to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.
2. Adjust or repair damaged parts.

3. Initiate EROSL, if necessary.

4. Replace parts.

5. Test repaired equipment.

6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals

2. TM 08509B-14, OMC (D) Model 35 HP Outboard

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.19 (CORE) REPAIR TRIM/TILT UNIT

CONDITION(S): Provided an ERO, completed LTI worksheet, malfunctioning outboard motor trim/tilt unit, applicable tools, repair parts, and references.

STANDARD(S): To restore trim/tilt unit to full operational condition per the references.

PERFORMANCE STEPS:

1. Diagnose malfunction.

2. Adjust or repair damaged parts.

3. Initiate EROSL, if necessary.

4. Replace parts.

5. Test repaired equipment.

6. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals

2. TM 08509B-14, OMC (D) Model 35 HP Outboard

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.20 (CORE) REPAIR HULL OF RIGID RAIDING CRAFT (RRC)

CONDITION(S): Provided an ERO, completed LTI worksheet, RRC with defective hull, applicable tools, repair materials, and references.

STANDARD(S): To restore craft to full operational condition per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Ensure safe procedures for storage, handling, usage, and disposal of chemicals utilized.
3. Inspect protective clothing used during hull repairs.
4. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. (RRC) Appropriate Reference Manuals
2. Applicable MSDS Sheets
3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1342.02.21 (CORE) REPAIR COMBAT RUBBER RAIDING CRAFT (CRRC)

CONDITION(S): Provided an ERO, completed LTI worksheet, damaged or unserviceable CRRC, applicable tools, repair parts and materials, and references.

STANDARD(S): To restore craft to full operational condition per the references.

PERFORMANCE STEPS:

1. Repair component parts, if required.
2. Replace thrust board, if required.
3. Repair rips and tears, if required.
4. Replace transom, if required.
5. Replace valves, if required.
6. Initiate EROSL, if required.
7. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. (CRRC) Appropriate Reference Manuals

2. Zodiac F-470 Field Service Manual

3. TM 4700-15/1, Equipment Recording Procedures

DUTY AREA 03 - SMALL CRAFT OPERATIONAL PROCEDURES

TASK: 1342.03.01 (CORE) INSTALL OUTBOARD MOTOR(S) ON SMALL CRAFT

CONDITION(S): Provided a small craft, outboard motor(s), applicable tools, and references.

STANDARD(S): To meet requirements outlined in the references.

PERFORMANCE STEPS:

1. Prepare the small craft for installation.
2. Prepare the outboard motor(s) for installation.
3. Install the outboard motor(s).
4. Test operate the installed outboard motor(s).

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. OMC Service Manuals

MOS 1345, ENGINEER EQUIPMENT OPERATOR

DUTY AREA 01 - EQUIPMENT SET-UP

TASK: 1345.01.01 (CORE) INSTALL/REMOVE TRACTOR, RUBBER-TIRED, ARTICULATED STEERING, MULTIPURPOSE 644E (TRAM) ATTACHMENTS

CONDITION(S): Provided TRAM Tractor, TRAM Tractor attachments, and the reference.

STANDARD(S): To ensure safe installation/removal with no injury to personnel or damage to the equipment per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Prepare tractor for attachments.
3. Install or remove the attachments.
4. Perform operator checks and services as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09148A-14/12, Technical Manual; Tractor, Rubber-Tired, Articulated Steering, Multipurpose 644E (TRAM)

TASK: 1345.01.02 (CORE) ASSIST IN THE INSTALLATION/REMOVAL OF D7G TRACTOR ATTACHMENTS

CONDITION(S): Provided a 1341 Engineer Equipment Mechanic, D7G Tractor, D7G Tractor attachments, and the reference.

STANDARD(S): To ensure safe installation/removal with no injury to personnel or damage to the equipment per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Prepare tractor for attachments.
3. Install or remove the attachments.
4. Perform operator checks and services as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 08757A-14/1, Operation and Maintenance Manual; D7G Tractor

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TASK: 1345.01.03 (CORE) INSTALL/REMOVE HIGH SPEED HIGH MOBILITY CRANE ATTACHMENTS

CONDITION(S): Provided a High Speed High Mobility Crane, attachments, tools, and reference.

STANDARD(S): To ensure safe installation/removal with no injury to personnel or damage to the equipment per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Prepare crane for attachments.
3. Install or remove the attachments.
4. Perform operator checks and services as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 07847A-15, Operation, Maintenance, and Overhaul Instructions; Model High Speed Mobility Crane

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TASK: 1345.01.04 (CORE) INSTALL/REMOVE 1085 EXCAVATOR ATTACHMENTS

CONDITION(S): Provided 1085C Excavator, Excavator attachments, appropriate tools, and the reference.

STANDARD(S): To ensure safe installation/removal with no injury to personnel or damage to the equipment per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Prepare tractor for attachments.
3. Install or remove the attachments.
4. Perform operator checks and services as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 08307A-14/1, Operation and Maintenance Instructions; Excavator Model 1085C

TASK: 1345.01.05 (CORE) INSTALL/REMOVE 420C VIBRATORY COMPACTOR DRUM

CONDITION(S): Provided 420C Vibratory Compactor, 420C Compactor drums, appropriate tools, and the reference.

STANDARD(S): To ensure safe installation/removal with no injury to personnel or damage to the equipment per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Prepare compactor for drums.
3. Install/remove the drums.
4. Perform operator checks and services as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 08602A-14/1, Operation and Maintenance Manual; Vibratory Compactor Rascal 420C

TASK: 1345.01.06 (CORE) INSTALL/REMOVE EXTENDED BOOM FORK LIFT (EBFL) ATTACHMENTS

CONDITION(S): Provided an extended boom fork lift, extended boom fork lift attachments, and the reference.

STANDARD(S): To ensure safe installation/removal with no injury to personnel or damage to the equipment per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Prepare fork lift for attachments.
3. Install or remove the attachments.
4. Perform operator checks and services as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09276A-14, Operation and Maintenance Manual; Extended Boom Forklift

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TASK: 1345.01.07 (CORE) INSTALL/REMOVE DTC 8606 FORK LIFT ATTACHMENTS

CONDITION(S): Provided a DTC 8606 fork lift, DTC 8606 fork lift attachments, and the reference.

STANDARD(S): To ensure safe installation/removal with no injury to personnel or damage to the equipment per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Prepare fork lift for attachments.
3. Install or remove the attachments.
4. Perform operator checks and services as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09135A-14, Operation and Maintenance Manual; DTC 8606 Forklift

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TASK: 1345.01.08 (CORE) ASSIST WITH EQUIPMENT SCHEDULED PREVENTIVE MAINTENANCE

CONDITION(S): Provided engineer equipment, appropriate tools, equipment records, and references.

STANDARD(S): To ensure safe installation/removal with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review references.
2. Assist in the performance of applicable second echelon preventive maintenance services.
3. Document maintenance actions as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.01.09 (CORE) CONDUCT SAFETY INSPECTIONS

CONDITION(S): Provided a working environment with working personnel and reference.

STANDARD(S): To identify discrepancies in safety procedures and to provide for their immediate correction per the reference.

PERFORMANCE STEPS:

1. Observe working environment personnel and activities.

2. Identify discrepancies in safety procedures.

3. Issue corrective orders.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. MCO P5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program Manual

DUTY AREA 02 - EQUIPMENT OPERATIONAL PROCEDURES

TASK: 1345.02.01 (CORE) OPERATE 130G GRADER IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided 130G Grader, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Perform before operations checks.
3. Perform starting procedures.
4. Perform during operations checks.
5. Operate grader to perform the following operations:
    a. area leveling
    b. ditching operation
    c. road improvement
    d. seven-step military road
    e. bank slope
6. Perform shut down procedures.
7. Perform after operations checks.
8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. SEBU 5453-01, 120G/130G Grader Manufacturer’s Manual
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.02 (CORE) OPERATE 621B SCRAPER IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided 621B Scraper, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Perform during operations checks and services.
5. Operate scraper to perform the following operations:
    a. load the bowl
    b. spread the load
    c. rough level an area
6. Perform shut down procedures.
7. Perform after operations checks and services.
8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: PFC

REFERENCE(S):

1. SEBU 5459-02, Scraper, Earth Moving 5R7128 (621B) Manufacturer's Manual
2. TM 4700-15/1, Equipment Recording Procedures
3. TM 5-3805-248-14&P-1, Technical Manual; Earth, Scraper

TASK: 1345.02.03 (CORE) OPERATE MC1150E TRACTOR IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided MC1150E Tractor, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Perform before operations checks and services.
3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate tractor to perform the following operations:

   a. stockpiling

   b. leveling

   c. ditching

   d. clearing

   e. stripping

   f. grubbing

   g. winching

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 07542A-12, Operation and Organizational Maintenance; Model MC1150D Loader and 1150E, Chapter 3

2. TM 09062A-14/1, Operator Organizational and Intermediate Maintenance

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.04 (CORE) OPERATE D7G TRACTOR IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided D7G Tractor, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate tractor to perform the following operations:

    a. stockpiling

    b. leveling

    c. ditching

    d. clearing

    e. stripping

    f. grubbing

    g. ripping

    h. push loading assist

    i. winching

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08757A-14/1, Operation and Maintenance Manual; D7G Tractor

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.05 (CORE) OPERATE HIGH SPEED HIGH MOBILITY CRANE IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided a High Speed High Mobility Crane, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate the crane to perform the following operations:

   a. material handling

   b. pile driver

   c. clamshell

   d. concrete bucket

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 07847A-15, Operation, Maintenance, and Overhaul Instructions; Model High Speed Mobility Crane

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.06 (CORE) OPERATE LRT-110 CRANE IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided the LRT-110 Crane, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate crane to perform the following operations:

   a. material handling

   b. platform operations

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09166A-14, Operation and Maintenance Manual; LRT-110 Crane

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.07 (CORE PLUS) OPERATE RUNWAY SWEEPER IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided Runway Sweeper, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate Runway Sweeper to perform foreign object and debris removal.

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Manufacturer's Manual

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.08 (CORE) OPERATE DTC 8606 FORKLIFT IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided a DTC 8606 Forklift, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Perform during operations checks and services.
5. Operate forklift to perform the following operations:
    a. material handling
    b. pintle hook operations
    c. winching operations
6. Perform shut down operations.
7. Perform after operations checks and services.
8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09135A-14, Operation and Maintenance Manual; DTC 8606 Forklift
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.09 (CORE) OPERATE EXTENDED BOOM FORKLIFT (EBFL) IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided an EBFL, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Perform during operations checks and services.

5. Operate forklift to perform material handling operations.

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09276A-14, Operation and Maintenance Manual; Extended Boom Forklift

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.10 (CORE) OPERATE 1085 EXCAVATOR IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided a 1085 Excavator, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate excavator to perform the following operations:

   a. ditching

   b. compacting

   c. auger operation

   d. rock breaking

   e. leveling

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09445A-14, Operation and Maintenance Manual; 1085 Excavator

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.11 (CORE) OPERATE ROUGH TERRAIN CONTAINER HANDLER (RTCH) IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided RTCH, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate container handler to perform material handling operations.

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 10-3930-641-10, Operation and Maintenance Manual; Rough Terrain Container Handler

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.12 (CORE PLUS) OPERATE 420C VIBRATORY COMPACTOR IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided 420C Vibratory Compactor, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate compactor to perform compacting operations.

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: MOJT Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. TM 08602-14/1, Operation and Maintenance Manual; 420C Vibratory Compactor

2. TM 4700-15/1, Equipment Recording Procedures

3. TM 5-2420-224-10, Operation and Maintenance Manual; Truck, Small Emplacement Excavator (SEE)

TASK: 1345.02.13 (CORE) OPERATE TRACTOR, RUBBER-TIRED, ARTICULATED STEERING, MULTIPURPOSE 644E (TRAM) IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided a TRAM, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate tractor to perform the following operations:

   a. stockpiling

   b. leveling

c. clamshell operation

d. dozing operation

e. scraping operation

f. loading

g. material handling

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 07080D-15, Technical Manual, First Echelon

2. TM 09148A-14/2, Technical Manual, First Echelon

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.14 (CORE PLUS) OPERATE MC1155 TRACTOR IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided a MC1155 Tractor, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate tractor to perform the following operations:

a. excavating operation

b. stockpiling

c. leveling

d. clamshell operation

e. dozing operation

f. scraping operation

g. clearing operation

h. winching

6. Perform shut down operations.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 09062A-14, Operation and Maintenance Manual; Tractor MC1150

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.02.15 (CORE) OPERATE TRUCK, SMALL EMPLACEMENT EQUIPMENT (SEE) IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided a SEE Tractor, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate truck to perform the following operations:

a. front end loader

b. ditching/trenching operations

c. hydraulic tools

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 4700-15/1, Equipment Recording Procedures

2. TM 5-2420-224-10, Operation and Maintenance Manual; Truck, Small Emplacement Excavator (SEE)

TASK: 1345.02.16 (CORE PLUS) OPERATE M9 ACE TRACTOR IN SUPPORT OF ENGINEER OPERATIONS

CONDITION(S): Provided an M9 ACE Tractor, an engineer equipment requirement, engineer equipment records and forms, and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to the equipment per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform before operations checks and services.

3. Perform starting procedures.

4. Perform during operations checks and services.

5. Operate tractor to perform the following operations:

   a. fill the bowl

   b. dozing operation

   c. breaching operation

   d. winching operation

   e. leveling operations

   f. swimming operations

6. Perform shut down procedures.

7. Perform after operations checks and services.

8. Complete operational records.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 4700-15/1, Equipment Recording Procedures

2. TM 5-2350-262-10, Operation and Maintenance Manual; Tractor M9 ACE

DUTY AREA 03 - NON-OPERATIONAL PROCEDURES

TASK: 1345.03.01 (CORE PLUS) PERFORM CORROSION PREVENTION AND CONTROL

CONDITION(S): Given an item of equipment, required safety equipment, materials, appropriate tools, and references.

STANDARD(S): To maintain equipment in optimum operating condition per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Identify discrepancies.
3. Perform necessary corrective action.
4. Dispose of waste.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 3080-25/2, Corrosion Control for Marine Corps Ground Equipment
2. TM 3080-50, Corrosion Control Procedures for Depot Maintenance Activities

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TASK: 1345.03.02 (CORE) CAMOUFLAGE POSITIONS, VEHICLES, OR EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM

CONDITION(S): Provided a mission, an area, vehicle(s) or equipment, lightweight camouflage screen, and the references.

STANDARD(S): To prevent detection from 200 meters or more in any direction or from the air per the references.

PERFORMANCE STEPS:

1. Review size of positions, vehicles, or equipment to be camouflaged.
2. Determine required modules of lightweight screen needed.
3. Assemble modules into one net.
4. Place assembled modules over position, vehicles, or equipment to be camouflaged.
5. Ensure appropriate blend is showing.
6. Tie into existing natural or other manmade camouflage.
7. Inspect area frequently and upgrade camouflage as needed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. FM 5-20, Camouflage

2. MCRP 3-17A, Engineer Field Data

TASK: 1345.03.03 (CORE PLUS) CONDUCT INVENTORY OF TOOL SETS, CHESTS, AND KITS

CONDITION(S): Provided tool sets, chests, kits, and references.

STANDARD(S): To reconcile inventory records for accountability and serviceability per the references.

PERFORMANCE STEPS:

1. Review references.

2. Conduct inventory.

3. Properly annotate inventory sheet.

4. Take corrective actions as required.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

2. TM 4700-15/1, Equipment Recording Procedures

DUTY AREA 04 - PREVENTIVE MAINTENANCE

TASK: 1345.04.01 (CORE) PERFORM EQUIPMENT OPERATOR PREVENTIVE MAINTENANCE

CONDITION(S): Provided engineer equipment, appropriate tools, equipment records, and references.

STANDARD(S): To meet maintenance requirements per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform appropriate operator preventive maintenance.

3. Document maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.04.02 (CORE PLUS) ASSIST IN PERFORMING ENGINEER EQUIPMENT LIMITED TECHNICAL INSPECTION (LTI)

CONDITION(S): Provided an item of equipment, a 1341 engineer equipment mechanic, a Preventive Maintenance and Technical Inspection Worksheet (NAVMC 10560), appropriate tools, and references.

STANDARD(S): To meet LTI requirements per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform operator preventive maintenance checks and services.

3. Assist the mechanic in inspecting the equipment per the technical manual.

4. Record inspection results.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.04.03 (CORE) LOAD TEST CRANES AND AERIAL PERSONNEL DEVICES

CONDITION(S): Provided with cranes or aerial personnel devices, completed annual condition inspection, load test equipment gear, appropriate tools, and references.

STANDARD(S): To ensure all wear and stress points are in operational condition per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Perform operator preventive maintenance checks and services.

3. Prepare crane/aerial personnel device for load test.

4. Assist with load test.

5. Document load test as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. MCO P11262.2, Inspection Test and Certification of Tactical Ground Load Lifting Equipment

3. TM 4700-15/1, Equipment Recording Procedures

DUTY AREA 05 - CORRECTIVE MAINTENANCE

TASK: 1345.05.01 (CORE PLUS) ASSIST IN REPLACING CUTTING EDGES/TEETH ON APPLICABLE ENGINEER EQUIPMENT

CONDITION(S): Provided an item of engineer equipment, a 1341 Engineer Equipment Mechanic, cutting edges/teeth, appropriate tools, and reference.

STANDARD(S): To restore equipment to full operational condition per the reference.

PERFORMANCE STEPS:

1. Review the references.

2. Consult with mechanic as to level of assistance required in replacing the cutting edges/teeth.

3. Assist in removing old cutting edges/teeth.

4. Assist in replacing new cutting edges/teeth.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

DUTY AREA 06 - RECORDS, DOCUMENTS, AND PUBLICATIONS

TASK: 1345.06.01 (CORE) PREPARE/MAINTAIN ENGINEER EQUIPMENT OPERATOR RECORDS/FORMS

CONDITION(S): Provided an item of engineer equipment, Record Jacket (NAVMC 696D), Engineer Equipment Operational Record (NAVMC 10523), Daily Dispatching-Log Record of Vehicles (NAVMC 10031), ERO (NAVMC 10245), Worksheet for Preventive Maintenance and Technical Inspections for Engineer Equipment (NAVMC 10560), Engineer Equipment Operation Log and Service Record Consolidated (NAVMC 10524), Preventive Maintenance Checks and Services Roster (NAVMC 105), EROS Condition Inspection Record, Load Test Equipment Daily Checklist (NAVMC 10925), and references.

STANDARD(S): To comply with record-keeping procedures per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Determine records/forms required.
3. Prepare the proper records/forms.
4. Maintain records/forms on file, and/or submit as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures
3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0410, MIMMS (AIS)

TASK: 1345.06.02 (CORE) PREPARE QUALITY DEFICIENCY REPORT (QDR)(SF 368)

CONDITION(S): Provided engineer equipment, a QDR (SF 368), and references.

STANDARD(S): To reflect equipment deficiencies per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Determine SF 368 requirements.
3. Prepare SF 368.
4. Submit SF 368 to appropriate supervisor.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.06.03 (CORE) MAINTAIN ENGINEER LICENSING PROGRAM

CONDITION(S): Provided unit T/O, unit T/E, item of equipment, and references.

STANDARD(S): To ensure operators are licensed per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Review license applications.
3. Conduct equipment training.
4. Administer licensing tests.
5. Prepare licenses/reject applications.
6. Ensure history files, license log book, action data file, and Service Record Book (SRB) entries are properly documented.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. TM 11275-15/4, Tactical Engineer Equipment Licensing Exam Manual

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TASK: 1345.06.04 (CORE) PREPARE MOTOR VEHICLE ACCIDENT REPORT (SF 91)

CONDITION(S): Provided accident data, SF 91, and the reference.

STANDARD(S): To record accident data per the reference.

PERFORMANCE STEPS:

1. Review SF 91.
2. Annotate appropriate operator’s entries on SF 91.
3. Submit to appropriate supervisor.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 4700-15/1, Equipment Recording Procedures

TASK: 1345.06.05 (CORE) EMPLOY ENGINEER EQUIPMENT ASSETS

CONDITION(S): Given engineer equipment, mission requirements, and the reference.

STANDARD(S): To best utilize engineer equipment in support of mission requirements per the reference.

PERFORMANCE STEPS:

1. Review the mission.
2. Employ equipment.
3. Supervise project.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations

TASK: 1345.06.06 (CORE) PERFORM EQUIPMENT RECOVERY

CONDITION(S): Provided with a recovery scenario and the reference.

STANDARD(S): To minimize damage or loss per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Evaluate recovery situation.
3. Determine proper recovery technique.
4. Assign necessary assets.
5. Conduct recovery operation.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. FM 20-22, Vehicle Recovery Operations

MOS 1349, ENGINEER EQUIPMENT CHIEF

DUTY AREA 01 - NON-EQUIPMENT OPERATIONAL PROCEDURES

TASK: 1349.01.01 (CORE) SUPERVISE MAINTENANCE ADMINISTRATION

CONDITION(S): Provided maintenance resources, local maintenance directives, and the reference.

STANDARD(S): To support mission requirements per the reference.

PERFORMANCE STEPS:

1. Provide input to the unit Maintenance Management Standard Operating Procedures.

2. Conduct internal inspections program.

3. Plan, organize, and coordinate the use of maintenance resources.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1349.01.02 (CORE) SUPERVISE ENGINEER EQUIPMENT MOS TRAINING PROGRAM

CONDITION(S): Provided a unit annual training plan and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review annual training plan.

2. Establish a section training plan.

3. Supervise MOS training.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Unit T/E

2. Unit T/O

3. MCO 3501.7, MCCRES Volume VI

4. MCO P4790.2, MIMMS Field Procedures Manual

5. MCRP 3-0A, Unit Training Management Guide

DISTANCE LEARNING PRODUCT(S):

1. MCI 1328, Engineer Equipment Chief

TASK: 1349.01.03 (CORE) SUPERVISE MAINTENANCE OF ENGINEER EQUIPMENT RECORDS/FORMS

CONDITION(S): Provided items of engineer equipment, appropriate records/forms, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Identify requirements for engineer equipment records/forms.

3. Ensure records for each item of engineer equipment are established as required.

4. Supervise maintenance of records and forms.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1349.01.04 (CORE) SUPERVISE PUBLICATIONS PROGRAM

CONDITION(S): Provided Marine Corps Orders, technical publications, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Review publication requirements.

3. Evaluate control procedures.

4. Evaluate Recommended Changes to Technical Publications (NAVMC 10772) procedures.

5. Determine deficiencies.

6. Take corrective actions as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Appropriate Stock Lists

2. Unit T/E

3. Unit T/O

4. MCO P4790.2, MIMMS Field Procedures Manual

5. MCO P5215.17, The USMC Tech Pub System

6. MCO P5600.31, Marine Corps Publication and Printing

7. NAVMC 2761, Catalog of Publications

TASK: 1349.01.05 (CORE PLUS) SUPERVISE ENGINEER EQUIPMENT AVAILABILITY

CONDITION(S): Provided maintenance resources, engineer equipment, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Review urgent of need designator assignment.

3. Review maximum maintenance cycle time.

4. Devlop plan to increase equipment availability.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Unit T/E

2. Unit T/O

3. MCO 3000.11, Marine Corps Ground Equipment Reporting

4. MCO P4790.2, MIMMS Field Procedures Manual

TASK: 1349.01.06 (CORE) SUPERVISE ENGINEER EQUIPMENT SECTION SUPPLY SUPPORT PROGRAM

CONDITION(S): Provided maintenance-related reports (MIMMS-AIS), appropriate equipment-related publications, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review references.
2. Review supply support request.
3. Submit input for budget requirements.
4. Monitor allocated funding.
5. Determine secondary repairables.
6. Supervise Pre-Expended Bin (PEB) and Equipment Repair Order (ERO) layette procedures.
7. Supervise supply support validation/reconciliation procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Unit T/E
2. MCO 4400.16, Uniform Material Movement Issue and Priority System (UMMIPS)
3. MCO P4400.150, Consumer Level Supply Policy Manual
4. MCO P4400.82, MIMMS Control Item Management Manual
5. MCO P4790.2, MIMMS Field Procedures Manual
6. TM 4700-15/1, Equipment Recording Procedures
7. UM 4400-124, SASSY Using Units Procedures
8. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1349.01.07 (CORE) SUPERVISE SUPPORT AND TEST EQUIPMENT PROGRAM

CONDITION(S): Provided support and test equipment, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review references.
2. Review support and test equipment assets and requirements.
3. Supervise support and test equipment inventory and control.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Fed Log
2. Unit T/E
3. Unit T/O
4. MCO P4790.2, MIMMS Field Procedures Manual
5. TM 4700-15/1, Equipment Recording Procedures

TASK: 1349.01.08 (CORE) SUPERVISE PREVENTIVE MAINTENANCE (PM) PROGRAM

CONDITION(S): Provided maintenance resources, engineer equipment, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Determine equipment PM requirements.
3. Develop PM schedule.
4. Conduct the engineer equipment PM program.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1349.01.09 (CORE) SUPERVISE CORRECTIVE MAINTENANCE (CM) PROGRAM

CONDITION(S): Provided maintenance resources, maintenance-related reports, engineer equipment, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review references.
2. Determine equipment CM requirements.
3. Schedule CM as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1349.01.10 (CORE) VALIDATE MAINTENANCE-RELATED REPORTS

CONDITION(S): Provided maintenance-related reports, supporting documentation, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review references.
2. Validate Daily Process Report.
3. Review Daily Transaction Listing.
4. Review Weekly Table of Authorized Material (TAM) Report.
5. Review Weekly Maintenance Exceptions Report.
6. Review Weekly LM2 Report.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual
2. TM 4700-15/1, Equipment Recording Procedures
3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1349.01.11 (CORE) SUPERVISE MAINTENANCE-RELATED PROGRAMS

CONDITION(S): Provided engineer equipment, support equipment, records/forms, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Determine requirements for maintenance-related programs.
2. Supervise modification control program.
3. Supervise calibration control program.
4. Supervise new equipment warranty program.
5. Supervise joint oil analysis program (JOAP).
6. Supervise replacement and evacuation program (R&E).
7. Supervise repair and return program (R&R).
8. Supervise quality deficiency program (QDR).
9. Supervise recoverable items program (WIR).
10. Supervise quality control program.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Appropriate Engineer Equipment Material Fielding Plans (MCO'S)
2. Appropriate Equipment Technical Publications
3. Fed Log
4. Unit T/E
5. MCO 4105.2, USMC Warranty Program
6. MCO 4731.1, Oil Analysis Program for Ground Equipment
7. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment Calibration and Maintenance Program
8. MCO P4400.82, MIMMS Control Item Management Manual
9. MCO P4790.2, MIMMS Field Procedures Manual
10. TI 4710-14/1, Recovery and Evacuation Criteria USMC

11. TI 4731-14/1, USMC Oil Analysis Program

12. TI 4733 15/1, Calibration Requirements TMDE Camp

DUTY AREA 02 - RECORDS, DOCUMENTS, AND PUBLICATIONS

TASK: 1349.02.01 (CORE) LOAD TEST ENGINEER EQUIPMENT

CONDITION(S): Provided appropriate load lifting equipment with completed annual condition inspection, maintenance resources, and references.

STANDARD(S): To validate equipment safety and operability per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Determine load testing requirements.

3. Conduct load test.

4. Document load test results.

5. Submit documentation to certifying officials.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. MCO P11262.2, Inspection Test and Certification of Tactical Ground Load Lifting Equipment

2. TM 4700-15/1, Equipment Recording Procedures

DUTY AREA 03 - PROGRAMS

TASK: 1349.03.01 (CORE) SUPERVISE ENGINEER EQUIPMENT LICENSING PROGRAM

CONDITION(S): Provided engineer equipment, equipment operators/trainees, support documentation, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review the references.
2. Identify licensing requirements.
3. Review testing procedures.
4. Supervise the engineer equipment licensing program.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. TM 11275-15/4, Tactical Engineer Equipment Licensing Exam Manual
2. TM 4700-15/1, Equipment Recording Procedures

TASK: 1349.03.02 (CORE PLUS) SUPERVISE EQUIPMENT RECOVERY OPERATIONS

CONDITION(S): Provided engineer equipment requiring recovery, resources, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Determine recovery requirements.
2. Determine available resources.
3. Develop a recovery plan.
4. Supervise recovery operations.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. Unit T/E
3. Unit T/O

4. MCRP 3-17A, Engineer Field Data

TASK: 1349.03.03 (CORE) ESTIMATE HORIZONTAL CONSTRUCTION PROJECT PRODUCTION AND LOGISTICAL REQUIREMENTS

CONDITION(S): Provided a horizontal construction mission, resources, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Conduct site reconnaissance.
2. Identify construction requirements.
3. Identify logistical requirements.
4. Identify environmental controls and natural resources considerations.
5. Formulate an estimate.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. Federal, State, and Local Regulations
3. FM 5-412, Project Management
4. FMFM 13, MAGTF Engineer Operations
5. MCO P5090.2, Environmental Compliance and Protection Manual
6. OPNAV 5090.1, Environmental and Natural Resources Protection Plan

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TASK: 1349.03.04 (CORE) SUPERVISE HORIZONTAL CONSTRUCTION

CONDITION(S): Provided a horizontal construction project, a construction site, construction plan, engineer equipment, resources, and references.

STANDARD(S): To meet specifications and milestones per the construction plan and the references.

PERFORMANCE STEPS:

1. Implement the construction plan.
2. Supervise personnel.

3. Supervise equipment.

4. Supervise available resources.

5. Conduct quality assurance.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. Construction Directive/Plan

3. FM 5-412, Project Management

4. FMFM 13, MAGTF Engineer Operations

TASK: 1349.03.05 (CORE) SUPERVISE ENGINEER EQUIPMENT OPERATIONS

CONDITION(S): Provided engineer equipment, available resources, a mission, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Determine engineer equipment assets required.

2. Conduct engineer equipment operations.

3. Supervise material handling equipment employment.

4. Supervise earth moving equipment employment.

5. Supervise general support engineer equipment employment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. FM 5-100, Engineer Combat Operations

3. FM 5-103, Survivability

4. FM 90-1, Countermobility

5. FM 90-13-1, Combined Arms Breaching Operations

MOS 1361, ENGINEER ASSISTANT

DUTY AREA 01 - CONSTRUCTION DRAFTING

TASK: 1361.01.01 (CORE) PERFORM BASIC DRAFTING TECHNIQUES

CONDITION(S): Provided a computer, computer-aided drafting software, and references.

STANDARD(S): To meet American National Standards Institute (ANSI) guidelines per the references.

PERFORMANCE STEPS:

1. Boot the computer.
2. Start the computer-aided drafting program.
3. Establish drawing parameters.
4. Utilize drawing command functions.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. Computer user's manual
2. Software user's manual
3. FM 5-553, General Drafting

DISTANCE LEARNING PRODUCT(S):

1. MCI 1344, Construction Print Reading

TASK: 1361.01.02 (CORE) CREATE COMPUTER-AIDED MULTI-VIEW DRAWINGS

CONDITION(S): Provided a computer, computer-aided drafting program, written project specifications, design sketches, a printer or plotter, and references.

STANDARD(S): To conform to project specifications, design sketches, and American National Standards Institute (ANSI) guidelines per the references.

PERFORMANCE STEPS:

1. Review written specifications and design sketches.
2. Boot the computer.
3. Start the computer-aided drafting program.
4. Establish drawing parameters.

5. Create a multi-view drawing.

6. Print or plot the multi-view drawing.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. Computer user's manual

2. Software user's manual

3. FM 5-553, General Drafting

4. NAVEDTRA 10696, Engineering Aid 3

DISTANCE LEARNING PRODUCT(S):

1. MCI 1344, Construction Print Reading

TASK: 1361.01.03 (CORE) CREATE COMPUTER-AIDED ARCHITECTURAL DRAWINGS

CONDITION(S): Provided a computer, computer-aided drafting software, written project specifications, design sketches, a printer or plotter, and references.

STANDARD(S): To conform to project specifications, design sketches, and American National Standards Institute (ANSI) guidelines per the references.

PERFORMANCE STEPS:

1. Review written project specifications and design sketches.

2. Boot the computer.

3. Start the computer-aided drafting program.

4. Establish drawing parameters.

5. Create a foundation plan.

6. Create a floor plan with door and window schedules.

7. Create an electrical plan with lighting schedule.

8. Create a plumbing plan with fixture schedule.

9. Create elevation views.

10. Create section and detail drawings.

11. Print or plot the architectural drawings.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. Computer user's manual
2. Software user's manual
3. FM 5-428, Concrete and Masonry
4. FM 5-553, General Drafting
5. NAVEDTRA 10696, Engineering Aid 3
6. TM 5-426, Carpentry
7. TM 5-581B, Construction Drafting
8. TM 5-704, Construction Print Reading in the Field
9. TM 5-760, Interior Wiring

DISTANCE LEARNING PRODUCT(S):

1. MCI 1344, Construction Print Reading

TASK: 1361.01.04 (CORE) CREATE COMPUTER-AIDED CIVIL DRAWINGS

CONDITION(S): Provided a computer, computer-aided drafting software, written project specifications, a printer or plotter, and references.

STANDARD(S): To conform to project specifications, design sketches, and American National Standards Institute (ANSI) guidelines per the references.

PERFORMANCE STEPS:

1. Review written specifications and design sketches.
2. Boot the computer.
3. Start the computer-aided drafting program.
4. Establish drawing parameters.
5. Create a contoured site plan.
6. Create a plan and profile drawing.
7. Create cross section drawings.
8. Create a contoured plot plan.
9. Print earthwork volume readouts.
10. Print or plot the civil drawings.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. Computer user's manual

2. Software user's manual

3. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

4. FM 5-553, General Drafting

5. NAVEDTRA 10696, Engineering Aid 3

6. TM 5-232, Elements of Construction Surveying

7. TM 5-581B, Construction Drafting

DISTANCE LEARNING PRODUCT(S):

1. MCI 1344, Construction Print Reading

DUTY AREA 02 - CONSTRUCTION SURVEYS

TASK: 1361.02.01 (CORE) ESTABLISH A CONTROL TRAVERSE

CONDITION(S): Provided written project specifications, a total station instrument, a data collector device, and references.

STANDARD(S): To guide horizontal and vertical construction project layouts per the references.

PERFORMANCE STEPS:

1. Review project specifications.
2. Identify control station locations.
3. Assemble the total station instrument.
4. Configure instrument settings.
5. Establish a recording mask format.
6. Perform an instrument operations check.
7. Measure angle sets and distances between traverse stations.
8. Collect and record field data measurements.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. Manufacturer’s instrument operator’s manual
2. NAVEDTRA 10696, Engineering Aid 3
3. TM 5-232, Elements of Construction Surveying

TASK: 1361.02.02 (CORE) CONDUCT A RADIAL SURVEY

CONDITION(S): Provided written project specifications, a control traverse, a total station instrument, a data collector device, and references.

STANDARD(S): To collect planimetric and topographic field data per the references.

PERFORMANCE STEPS:

1. Review project specifications.
2. Assemble the total station instrument.
3. Configure instrument settings.

4. Establish a recording mask format.

5. Perform an instrument operations check.

6. Collect and record planimetric observations.

7. Collect and record topographic observations.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. Manufacturer's instrument operator's manual

2. NAVEDTRA 10696, Engineering Aid 3

3. TM 5-232, Elements of Construction Surveying

TASK: 1361.02.03 (CORE) ADJUST COLLECTED FIELD DATA

CONDITION(S): Provided a data collector device, a computer, software applications, collected survey field data, a printer, and references.

STANDARD(S): To produce zero processor and compiler errors per the references.

PERFORMANCE STEPS:

1. Boot the computer.

2. Start the software program.

3. Connect the data collector device to the computer.

4. Download the collected field data to the software program.

5. Print the unedited collection file.

6. Edit the field collection file.

7. Process the edited field collection file.

8. Adjust the field data file.

9. Compile the field data file.

10. Print the adjusted field data file.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. Computer user's manual

2. Software user's manual

TASK: 1361.02.04 (CORE) LAYOUT A PROJECT

CONDITION(S): Provided written project design specifications, a total station instrument, a data collection device, a computer, software applications, a design coordinate file, a printer, and references.

STANDARD(S): To meet design specifications per the references.

PERFORMANCE STEPS:

1. Boot the computer.
2. Start the software program.
3. Connect the data collector device to computer.
4. Upload design coordinates to the data collector device.
5. Print design coordinate data.
6. Assemble the total station instrument.
7. Configure instrument settings.
8. Establish a recording mask format.
9. Perform instrument operations check.
10. Activate the on-board instrument coordinate geometry program.
11. Layout project coordinate points.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. Computer user's manual
2. Software user's manual
3. NAVEDTRA 10696, Engineering Aid 3
4. TM 5-232, Elements of Construction Surveying

DUTY AREA 03 - PROJECT PLANNING

TASK: 1361.03.01 (CORE) DESIGN A HORIZONTAL CONSTRUCTION PROJECT

CONDITION(S): Provided a horizontal construction mission, a scientific calculator, a computer, software applications, and references.

STANDARD(S): To meet construction mission requirements per the references.

PERFORMANCE STEPS:

1. Review the horizontal construction mission.
2. Perform a project site reconnaissance.
3. Perform a soil identification test.
4. Calculate drainage system requirements.
5. Identify structural dimensions.
6. Design the horizontal alignments for the project.
7. Design the vertical alignments for the project.
8. Balance earthwork volumes for the project.
9. Develop finished design sketches.
10. Create project design specifications.
11. Supervise the development of finished design drawings.
12. Supervise the layout of the project site.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Sgt

REFERENCE(S):

1. Computer user’s manual
2. Software user’s manual
3. FM 5-335, Drainage
4. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations
5. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations
6. FM 5-530, Materials Testing
7. MCRP 3-17A, Engineer Field Data

TASK: 1361.03.02 (CORE) DESIGN A VERTICAL CONSTRUCTION PROJECT

CONDITION(S): Provided a vertical construction mission, a scientific calculator, a computer, software applications, and references.

STANDARD(S): To safely support all calculated loads per the references.

PERFORMANCE STEPS:

1. Review the vertical construction mission.
2. Perform a project site reconnaissance as necessary.
3. Perform a soil identification test as necessary.
4. Calculate the structure's live and dead loads.
5. Design the structural foundation requirements.
6. Design the structural framing requirements.
7. Identify finish construction material requirements.
8. Develop finished design sketches.
9. Create project design specifications.
10. Supervise development of finished design drawings.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Sgt

REFERENCE(S):

1. FM 5-428, Concrete and Masonry
2. MCRP 3-17A, Engineer Field Data
3. NAVEDTRA 10696, Engineering Aid 3
4. TM 5-426, Carpentry
5. TM 5-581B, Construction Drafting
6. TM 5-704, Construction Print Reading in the Field

TASK: 1361.03.03 (CORE) UTILIZE AUTOMATED FACILITIES PROGRAMS

CONDITION(S): Provided a project mission and specifications, a computer, facilities software applications, a printer or plotter, and references.

STANDARD(S): To identify structural requirements in support of project missions and specifications per the references.

PERFORMANCE STEPS:

1. Review the project mission and specifications.
2. Boot the computer.
3. Start the automated facilities program.
4. Identify the appropriate facilities drawings.
5. Modify the facilities drawing as necessary.
6. Utilize the facility resource data base.
7. Print facilities resource lists.
8. Supervise the plotting of facilities drawings.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Cpl

REFERENCE(S):

1. Computer user's manual
2. Software user's manual

TASK: 1361.03.04 (CORE) COMPUTE A PROJECT BILL OF MATERIALS

CONDITION(S): Provided a project mission, written project specifications, finished design drawings, a scientific calculator, a computer, software applications, and references.

STANDARD(S): To support the vertical construction mission per the references.

PERFORMANCE STEPS:

1. Review project mission, project specifications, and design drawings.
2. Calculate concrete quantities.
3. Calculate concrete reinforcement quantities.
4. Calculate concrete form work quantities.
5. Calculate masonry quantities.
6. Calculate board, lumber, and timber quantities.
7. Calculate fastener quantities.

8. Calculate hardware quantities.

9. Calculate finish material quantities.

10. Calculate electrical fixture quantities.

11. Calculate plumbing fixture quantities.

12. Produce a consolidated project bill of materials.

13. Research material costs.

14. Submit a completed bill of materials for procurement.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Cpl

REFERENCE(S):

1. FM 5-412, Project Management

2. NAVFAC P-405, Seabee Planner's and Estimator's Handbook

TASK: 1361.03.05 (CORE) IMPLEMENT PROJECT PLANNING METHODS

CONDITION(S): Provided a project mission, written project specifications, finished design drawings, a completed bill of materials, a scientific calculator, a computer, software applications, a printer, and references.

STANDARD(S): To support the project mission per the references.

PERFORMANCE STEPS:

1. Review project mission, written project specifications, and design drawings.

2. Perform a project site reconnaissance as necessary.

3. Determine work activities.

4. Determine the logical sequence and inter-relationship of work activities.

5. Identify activity resource requirements.

6. Calculate activity durations.

7. Boot the computer.

8. Start the software application.

9. Establish project schedule settings.

10. Input the project activities with precedence order.

11. Input activity durations.

12. Input activity resource requirements.

13. Adjust the project schedule as necessary.

14. Print a network diagram.

15. Print a project activities report.

16. Print a resource schedule.

17. Brief the Project Officer.

18. Supervise the work activities.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: SSgt

REFERENCE(S):

1. Computer user's manual

2. Software user's manual

3. FM 5-412, Project Management

4. NAVFAC P-405, Seabee Planner's and Estimator's Handbook

DUTY AREA 04 - MAINTENANCE ADMINISTRATION

TASK: 1361.04.01 (CORE PLUS) MAINTAIN MIMMS PROGRAM

CONDITION(S): Provided a maintenance directive, unit T/E, unit T/O, maintenance forms, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Maintain a publications library.
2. Maintain a calibration control program.
3. Complete an Equipment Repair Order (ERO) (NAVMC 10245).
4. Complete an ERO Shopping/Transaction List (NAVMC 10925).
5. Analyze Daily Processing Report (DPR).
6. Reconcile outstanding supply requests.
7. Maintain equipment inventories.
8. Maintain desktop procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 3 Req By: SSgt

REFERENCE(S):

1. Unit MMSOP
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TI 4733-15/21, Survey Instrument Exchange Program
4. TM 4700-15/1, Equipment Recording Procedures
5. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1361.04.02 (CORE PLUS) ANALYZE MAINTENANCE MANAGEMENT RECORDS

CONDITION(S): Provided a Daily Processing Report (DPR), Equipment Repair Order (NAVMC 10245), and Equipment Repair Order Shopping/Transaction List (NAVMC 10925).

STANDARD(S): To identify and correct discrepancies per the references.

PERFORMANCE STEPS:

1. Analyze Daily Processing Report (DPR).
2. Analyze requisition procedures.
3. Analyze equipment records.

INITIAL TRAINING SETTING: MOJT Sustainment: 3 Req By: SSgt

REFERENCE(S):

1. TM 4700-15/1, Equipment Recording Procedures
2. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

DUTY AREA 05 - SUPERVISORY FUNCTIONS

TASK: 1361.05.01 (CORE PLUS) SUPERVISE MOS TRAINING PROGRAM

CONDITION(S): Provided with a unit annual training plan and references.

STANDARD(S): To meet mission requirements per the references.

PERFORMANCE STEPS:

1. Identify unit training requirements.
2. Identify individual training standards (ITS) requirements.
3. Plan an individual training program.
4. Implement individual training program.
5. Supervise individual training program.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: GySgt

REFERENCE(S):

1. Unit T/E
2. Unit T/O
3. MCO P4790.2, MIMMS Field Procedures Manual
4. MCRP 3-0A, Unit Training Management Guide
5. MCRP 3-0B, How to Conduct Training

TASK: 1361.05.02 (CORE PLUS) SUPERVISE MAINTENANCE ADMINISTRATION

CONDITION(S): Provided with maintenance resources, appropriate maintenance directives, and references.

STANDARD(S): To support mission requirement per the references.

PERFORMANCE STEPS:

1. Provide input to the unit Maintenance Management Standard Operating Procedures (MMSOP).
2. Conduct internal inspection program.
3. Plan, organize, and coordinate the use of maintenance resources.
4. Maintain a turnover file.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: GySgt

REFERENCE(S):

1. Unit MMSOP
2. MCO P4790.2, MIMMS Field Procedures Manual

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1361.05.03 (CORE PLUS) SUPERVISE EQUIPMENT RECORDS

CONDITION(S): Provided with engineer equipment, appropriate records and forms, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Identify equipment records requirements.
2. Identify maintenance records requirements.
3. Identify calibration control requirements.
4. Supervise equipment records.
5. Supervise maintenance records.
6. Supervise calibration control records.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: GySgt

REFERENCE(S):

1. Unit MMSOP
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TM 4700-15/1, Equipment Recording Procedures
4. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1361.05.04 (CORE PLUS) SUPERVISE PUBLICATIONS RESOURCES

CONDITION(S): Provided Marine Corps Orders, technical publications, equipment-related publications, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Identify publications requirements.
2. Evaluate publications on hand.
3. Evaluate control procedures.
4. Determine NAVMC 10772 procedures.
5. Determine deficiencies.
6. Take corrective actions as required.

INITIAL TRAINING SETTING: MOJT Sustainment: 3 Req By: SSgt

REFERENCE(S):

1. Unit MMSOP
2. MCO P4790.2, MIMMS Field Procedures Manual
3. MCO P5215.17, The USMC Tech Pub System
4. MCO P5600.31, Marine Corps Publication and Printing
5. NAVMC 2761, Catalog of Publications

MOS 1371, COMBAT ENGINEER

DUTY AREA 01 - GENERAL ENGINEERING

TASK: 1371.01.01 (CORE) CUT LUMBER TO DIMENSION

CONDITION(S): Provided a mission, construction site, engineer carpentry tools, portable power tools, power source, lumber, specifications, and references.

STANDARD(S): To meet mission specifications, utilizing proper tools while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Receive the mission.
2. Use rules, tapes, squares, and marking tools.
3. Use engineer carpentry tools.
4. Use portable power tools.
5. Use nonportable power tools.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: PFC

REFERENCE(S):

1. Appropriate TM for Portable Power Source
2. Appropriate TM/Manufacturer's Manual for Power Tools
3. FM 5-426, Carpentry

TASK: 1371.01.02 (CORE) PLACE LUMBER

CONDITION(S): Provided a mission, construction site, specifications, engineer carpentry tools, lumber cut to specification, nails, and references.

STANDARD(S): To meet mission specifications, utilizing proper tools while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Receive the mission.
2. Place floor lumber.
3. Place exterior wall frame lumber.
4. Place door and window lumber.

5. Place stair lumber.

6. Place roof lumber.

7. Place concrete form lumber.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: PFC

REFERENCE(S):

1. FM 5-426, Carpentry

2. TM 5-704, Construction Print Reading in the Field

TASK: 1371.01.03 (CORE PLUS) DESIGN WOOD FRAME STRUCTURE

CONDITION(S): Provided a mission, construction drawings, blueprints, or specifications writing/sketching materials, a calculator, and the references.

STANDARD(S): To conform to the construction drawings, blueprints, or specifications, identify type of materials and proper spacing, and support all loads considered per the references.

PERFORMANCE STEPS:

1. Review the mission, construction drawings, blueprints, or specifications.

2. Design the structure components.

3. Prepare a bill of materials.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: SSgt

REFERENCE(S):

1. FM 5-426, Carpentry

TASK: 1371.01.04 (CORE PLUS) LAYOUT WOOD FRAME STRUCTURES

CONDITION(S): Provided a construction site, construction drawings and specifications, tools, building materials, and the references.

STANDARD(S): To conform to construction drawings and design specifications per the references.

PERFORMANCE STEPS:

1. Layout a rectangle.

2. Set batter board posts.

3. Drive corner stakes.

4. Install batter boards to finished heights.

5. Run building lines.

6. Square building lines.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. FM 5-426, Carpentry

2. TM 5-704, Construction Print Reading in the Field

TASK: 1371.01.05 (CORE) MIX CONCRETE

CONDITION(S): Provided a mission, construction site, specifications, engineer masonry tools, concrete mix, concrete mixer, water source, specified mix ratio, and references.

STANDARD(S): To ensure batches of concrete are of uniform quality, conforming to the specified mix ratio; the concrete mixer is properly set up, operated, and secured; and safety precautions observed at all times per the references.

PERFORMANCE STEPS:

1. Receive the mission.

2. Perform before/during/after operations checks on the concrete mixer, as necessary.

3. Set up and operate the mixer.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: PFC

REFERENCE(S):

1. Appropriate TM/Manufacturer's Manual for the Concrete Mixer

2. FM 5-428, Concrete and Masonry

TASK: 1371.01.06 (CORE PLUS) DETERMINE REQUIRED CONCRETE MIXTURE

CONDITION(S): Provided construction drawings, blueprints, specifications, writing materials, calculator, and the reference.

STANDARD(S): To ensure the mix ratio conforms to the construction specifications per the reference.

PERFORMANCE STEPS:

1. Determine type of cement to be used.
2. Identify water and aggregate for suitability.
3. Select desired slump.
4. Select percent of air entrapment.
5. Select amount of water.
6. Select a water-cement ratio.
7. Select amount of cement.
8. Determine loose volume of gravel.
9. Convert weights to absolute volume.
10. Determine weight of sand.
11. Determine loose volume of sand.
12. List final proportions for a one cubic yard batch.
13. Perform field moisture test on the aggregate and adjust mix design to account for aggregate moisture.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. FM 5-428, Concrete and Masonry

TASK: 1371.01.07 (CORE) POUR CONCRETE

CONDITION(S): Provided a mission, construction site, specifications, engineer masonry tools, reinforcing materials, mixed concrete, and references.

STANDARD(S): To produce a tight bond between the paste and coarse aggregate, and fill the forms completely per the references.

PERFORMANCE STEPS:

1. Receive the mission.
2. Prepare the subgrade.
3. Prepare the forms.
4. Set the reinforcing material.

5. Pour the concrete.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: PFC

REFERENCE(S):

1. FM 5-428, Concrete and Masonry

2. TM 5-704, Construction Print Reading in the Field

TASK: 1371.01.08 (CORE) FINISH CONCRETE

CONDITION(S): Provided a mission, construction site, specifications, engineer masonry tools, reinforcing materials, mixed concrete, and the reference.

STANDARD(S): To produce the desired finish per specifications and the reference.

PERFORMANCE STEPS:

1. Receive the mission.

2. Select concrete.

3. Apply finish.

4. Check concrete for proper curing.

5. Remove forms.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: PFC

REFERENCE(S):

1. FM 5-428, Concrete and Masonry

TASK: 1371.01.09 (CORE) CONSTRUCT CONCRETE BLOCK STRUCTURES

CONDITION(S): Provided a mission, construction site, specifications, concrete block, mortar mix, engineer masonry and carpentry tools, appropriate power tools, power source, and references.

STANDARD(S): To conform to design specifications per the references.

PERFORMANCE STEPS:

1. Mix mortar to required specifications.

2. Lay concrete block.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: PFC

REFERENCE(S):

1. FM 5-428, Concrete and Masonry

2. TM 5-704, Construction Print Reading in the Field

TASK: 1371.01.10 (CORE PLUS) DESIGN CONCRETE FORMS

CONDITION(S): Provided a mission, construction drawings, blueprints, specifications, and references.

STANDARD(S): To ensure design conforms to specifications per the references.

PERFORMANCE STEPS:

1. Review the mission, construction drawings, blueprints, or specifications.

2. Prepare a Bill of Materials (BOM).

3. Design forms.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. FM 5-426, Carpentry

2. FM 5-428, Concrete and Masonry

3. TM 5-704, Construction Print Reading in the Field

TASK: 1371.01.11 (CORE) CONSTRUCT CONCRETE FORM

CONDITION(S): Provided a mission, construction site, specifications, appropriate power tools, power source, and references.

STANDARD(S): To conform to design specifications per the references.

PERFORMANCE STEPS:

1. Review the mission, construction drawings, blueprints, or specifications.

2. Construct forms.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. FM 5-426, Carpentry

2. FM 5-428, Concrete and Masonry

3. TM 5-704, Construction Print Reading in the Field

TASK: 1371.01.12 (CORE) DESIGN CONCRETE STRUCTURES

CONDITION(S): Provided a mission, construction drawings, blueprints, specifications, writing/sketching materials, a calculator, and the references.

STANDARD(S): To conform to blueprint format, specify type of materials and proper spacing, and provide finished footings and slabs capable of supporting all loads considered per the references.

PERFORMANCE STEPS:

1. Review the mission, construction drawings, blueprints, or specifications.

2. Design structure components.

3. Prepare a bill of materials.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: GySgt

REFERENCE(S):

1. FM 5-428, Concrete and Masonry

2. TM 5-704, Construction Print Reading in the Field

TASK: 1371.01.13 (CORE) DROP STANDING TIMBER

CONDITION(S): Provided a mission, an area of standing timber, appropriate handtools, chain saw, and references.

STANDARD(S): To meet mission requirements, without injury to personnel or damage to equipment, per the references.

PERFORMANCE STEPS:

1. Receive the mission.

2. Drop timber using appropriate hand tools.

3. Drop timber using a chain saw.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: PFC

REFERENCE(S):

1. Appropriate TM/Manufacturer’s Manual for Chain Saw

TASK: 1371.01.14 (CORE) CUT TIMBER TO SIZE

CONDITION(S): Provided a mission, an area of standing timber, appropriate hand tools, chain saw, and references.

STANDARD(S): To meet mission requirements, utilizing proper tools, techniques, and procedures while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Receive the mission.
2. Cut timber to size using appropriate hand tools.
3. Cut timber to size using a gas powered chain saw.
4. Cut timber to size using a hydraulic chain saw.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: PFC

REFERENCE(S):

1. Appropriate TM/Manufacturer's Manual for Chain Saw

TASK: 1371.01.15 (CORE) PLACE TIMBER

CONDITION(S): Provided a mission, construction site, specifications, engineer carpentry tools, timber cut to specification, attaching hardware, and references.

STANDARD(S): To meet mission specifications, utilizing proper tools while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Receive the mission.
2. Place timber using drift pins, nails, and bolts.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: PFC

REFERENCE(S):

1. FM 5-103, Survivability
2. GTA 5-7-6, Bridge Design Card
3. MCRP 3-17A, Engineer Field Data

TASK: 1371.01.16 (CORE PLUS) EMPLOY CONSTRUCTION SHOP COMPONENTS SET

CONDITION(S): Provided a mission, construction shop site, construction shop components set, and references.

STANDARD(S): To test operability and accountability of all required components per the reference.

PERFORMANCE STEPS:

1. Review the mission.
2. Determine shop electrical power requirements.
3. Assemble construction shop components set.
4. Disassemble construction shop components set.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Sgt

REFERENCE(S):

1. Manufacturer's Shop Manual

TASK: 1371.01.17 (CORE PLUS) ESTIMATE REQUIREMENTS FOR ENGINEER OPERATIONS

CONDITION(S): Provided a mission, construction drawings, blueprints, specifications, calculator, writing materials, DA Form 2702, and references.

STANDARD(S): To accomplish mission requirements per the references.

PERFORMANCE STEPS:

1. Review the mission.
2. Prepare materials estimates/materials takeoff list.
3. Develop a materials list.
4. Prepare Bill of Materials on DA Form 2702 or other locally required form.
5. Prepare personnel estimates.
6. Prepare equipment estimates.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: SSgt

REFERENCE(S):

1. FM 5-412, Project Management
2. FM 5-426, Carpentry

TASK: 1371.01.18 (CORE PLUS) PLAN A BASE CAMP

CONDITION(S): Provided a mission, general location of a base camp, number of personnel the camp must support, and references.

STANDARD(S): To support the mission requirements per the references.

PERFORMANCE STEPS:

1. Analyze the mission and the base camp requirements.
2. Coordinate with support elements.
3. Determine the location of the base camp.
4. Establish a project schedule.
5. Plan road network.
6. Select the facilities required to support the base camp.
7. Design the layout.
8. Determine the utilities requirements.
9. Select the type of bunkers and shelters required.
10. Determine all logistical requirements.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 5-100, Engineer Combat Operations
2. FM 5-103, Survivability
3. FM 5-410, Military Soils Engineering
4. FM 5-412, Project Management
5. FM 5-426, Carpentry
6. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations
7. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations
8. TM 5-302, Construction in the Theater of Operations

TASK: 1371.01.19 (CORE PLUS) REQUISITION REQUIRED MATERIALS

CONDITION(S): Provided a mission, bill(s) of materials, and the references.

STANDARD(S): To accomplish the mission per the references.

PERFORMANCE STEPS:

1. Review the mission.

2. Review the bill(s) of materials.

3. Requisition the required materials.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Local SOP

2. UM 4400-124, SASSY Using Units Procedures

TASK: 1371.01.20 (CORE PLUS) ESTABLISH PROJECT/OPERATION SCHEDULES

CONDITION(S): Provided a mission, construction drawings, blueprints, specifications, calculator, writing materials, DA Form 2702, and reference.

STANDARD(S): To list all personnel, equipment, and materials necessary to accomplish the mission and to provide an estimated completion time per the reference.

PERFORMANCE STEPS:

1. Review the mission.

2. Determine all construction activities/tasks necessary to complete the project.

3. Determine available resources and methods of construction to decide how the activities/tasks should be accomplished.

4. Determine amount of time required to complete each phase of the project.

5. Develop schedules.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: GySgt

REFERENCE(S):

1. FM 5-412, Project Management

DUTY AREA 02 - MOBILITY

TASK: 1371.02.01 (CORE PLUS) INSTALL A MEDIUM GIRDER BRIDGE

CONDITION(S): Provided a mission, a bridge construction site, medium girder bridge components, tools, launch vehicle, bridge personnel, and references.

STANDARD(S): To meet design specifications and intended bridge classification per the mission, while observing safety precautions during erection and launch per the references.

PERFORMANCE STEPS:

1. Review references/directives/specifications.
2. Brief/instruct the crew on the mission/assignment.
3. Layout site based on critical pallet loads.
4. Enforce safety precautions are observed.
5. Assemble bridge.
6. Debrief the crew.
7. Inform the engineer officer of project status.
8. Submit required reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MCRP 3-17A, Engineer Field Data
2. TM 08676A-10/1-1, Operator’s Manual, MGB
3. TM 5-5420-212-12, Medium Girder Bridge
4. TM 5-5420-212-12-1, Link Reinforcement Set

TASK: 1371.02.02 (CORE PLUS) MANEUVER A STANDARD MILITARY RAFT

CONDITION(S): Provided a mission, a wet gap crossing site, bridge erection boats, tools, fuel, bridge personnel, and references.

STANDARD(S): To meet mission requirements while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review references/directives/specifications.

2. Brief/instruct the crew on the mission/assignment.

3. Inspect raft components.

4. Operate bridge erection boats.

5. Rig erection boats to raft.

6. Load raft.

7. Maneuver the raft to facilitate gap crossing.

8. Maintain rafting schedule.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MCRP 3-17A, Engineer Field Data

2. TM 5-1940-277-10, Operator's Manual, Bridge Erection Boat USCSBMK 1 and 2

3. TM 5-5420-209-12, Operator's and Organizational Manual, Improved Floating Bridge (Ribbon Bridge)

TASK: 1371.02.03 (CORE PLUS) INSTALL RIBBON BRIDGE

CONDITION(S): Provided a mission, wet gap crossing site, bridge components, bridge erection equipment, tools, bridge erection boats, fuel, bridge personnel, and references.

STANDARD(S): To meet design specifications while observing safety precautions during erection and launch per the references.

PERFORMANCE STEPS:

1. Review references/directives/specifications.

2. Brief/instruct the crew on the mission/assignment.

3. Off load bridge bays.

4. Connect bays.

5. Enforce safety precautions.

6. Position bridge.

7. Debrief the crew.

8. Inform the engineer officer of project status.

9. Submit required reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Sgt

REFERENCE(S):

1. MCRP 3-17A, Engineer Field Data

2. MCRP 3-17B, Engineer Forms and Reports

3. TM 5-1940-277-10, Operator's Manual, Bridge Erection Boat USCSBMK 1 and 2

4. TM 5-5420-209-12, Operator's and Organizational Manual, Improved Floating Bridge (Ribbon Bridge)

TASK: 1371.02.04 (CORE PLUS) ASSEMBLE RIBBON BRIDGE RAFT

CONDITION(S): Provided a mission, a wet gap crossing site, tools, bridge personnel, and references.

STANDARD(S): To meet mission requirements while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review references/directives/specifications.

2. Brief/instruct the crew on the mission/assignment.

3. Enforce safety precautions are observed.

4. Ensure raft assembly is complete.

5. Debrief the crew.

6. Inform the engineer officer of project status.

7. Submit required reports.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MCRP 3-17A, Engineer Field Data

2. TM 5-1940-277-10, Operator's Manual, Bridge Erection Boat USCSBMK 1 and 2

3. TM 5-5420-209-12, Operator's and Organizational Manual, Improved Floating Bridge (Ribbon Bridge)

TASK: 1371.02.05 (CORE PLUS) OPERATE BRIDGE ERECTION BOAT

CONDITION(S): Provided a body of water, bridging equipment, bridge erection boats, tools, trucks, bridge personnel, and the reference.

STANDARD(S): To accomplish bridge/raft operations while observing safety precautions per the reference.

PERFORMANCE STEPS:

1. Perform before/during/after operations checks on the boat/motor, as required.

2. Operate the boat.

3. Maneuver bridge components to ensure proper assembly.

4. Secure the boat.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. TM 5-1940-277-10, Operator's Manual, Bridge Erection Boat USCSBMK 1 and 2

TASK: 1371.02.06 (CORE PLUS) DETERMINE RAFT SIZE REQUIRED FOR WET GAP CROSSING

CONDITION(S): Provided a mission specifying a military load class requirement, personnel, rafting equipment, and references.

STANDARD(S): To meet mission requirements, based on available resources and to deliver the troops and equipment across the gap with a minimum number of trips per the references.

PERFORMANCE STEPS:

1. Review the mission.

2. Determine the type/amount of rafting and support equipment required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance

2. MCRP 3-17A, Engineer Field Data

3. TM 5-5420-209-12, Operator's and Organizational Manual, Improved Floating Bridge (Ribbon Bridge)

TASK: 1371.02.07 (CORE PLUS) SELECT BRIDGING SITES

CONDITION(S): Provided a mission specifying a military load class requirement, an area map, reconnaissance report(s), and references.

STANDARD(S): To meet mission requirements based on analysis of all available pertinent wet/dry gap data per the references.

PERFORMANCE STEPS:

1. Review the mission, reconnaissance reports, maps, and any other intelligence data available.

2. Locate potential access/egress routes and turnarounds.

3. Calculate gap width, noting narrow portions.

4. Calculate high and low water velocity.

5. Determine slope of approaches.

6. Analyze soil compacting at near and far banks.

7. Estimate gap depth and bottom composition.

8. Determine the availability of cover and concealment.

9. Determine the location of stagging/assembly areas.

10. Determine availability of local engineer materials for possible use in bridging operations.

11. Recommend bridge sites.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance

2. FM 5-446, Military Non-Standard Fixed Bridges

3. MCRP 3-17A, Engineer Field Data

4. TM 5-5420-209-12, Operator's and Organizational Manual, Improved Floating Bridge (Ribbon Bridge)

5. TM 5-5420-212-12, Medium Girder Bridge

6. TM 5-5420-212-12-1, Link Reinforcement Set

TASK: 1371.02.08 (CORE PLUS) DETERMINE BRIDGE ASSETS REQUIRED TO SPAN A GAP

CONDITION(S): Provided a mission specifying a military load class requirement, an area map, reconnaissance report(s), and references.

STANDARD(S): To meet mission requirements based on analysis of all available pertinent wet/dry gap data per the references.

PERFORMANCE STEPS:

1. Review the mission.
2. Calculate gap width.
3. Compute high and low water velocity.
4. Analyze soil bearing capacity at near and far banks.
5. Determine availability/condition of abutments.
6. Locate a safe launch/land point for the bridge.
7. Determine logistical requirements.
8. Calculate required bridge length and type necessary to span the gap.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance
2. FM 5-446, Military Non-Standard Fixed Bridges
3. MCRP 3-17A, Engineer Field Data
4. TM 5-5420-209-12, Operator's and Organizational Manual, Improved Floating Bridge (Ribbon Bridge)
5. TM 5-5420-212-12, Medium Girder Bridge
6. TM 5-5420-212-12-1, Link Reinforcement Set

TASK: 1371.02.09 (CORE PLUS) DESIGN A NONSTANDARD BRIDGE

CONDITION(S): Provided a mission, a bridging requirement, a bridge construction site, and references.

STANDARD(S): To meet or exceed required military load classifications to support operations per references.

PERFORMANCE STEPS:

1. Analyze mission, enemy, terrain, troops and fire support available; and time, space and logistics (METT-TSL).

2. Conduct site reconnaissance.

3. Determine the bridge type.

4. Determine the superstructure type.

5. Determine the substructure type

6. Determine the bill of materials.

7. Determine support requirements.

8. Illustrate final design.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: GySgt

REFERENCE(S):

1. FM 5-446, Military Non-Standard Fixed Bridges

2. MCRP 3-17A, Engineer Field Data

3. NAVEDTRA 10648-G, Builder 3 and 2

TASK: 1371.02.10 (CORE PLUS) CONDUCT ROUTE RECONNAISSANCE

CONDITION(S): Provided a mission, map of the area, compass, measuring tape, appropriate reconnaissance reporting forms, and references.

STANDARD(S): To identify information which will impact on engineer operations per the references.

PERFORMANCE STEPS:

1. Review the mission.

2. Review the map of the route to be taken.

3. Prepare and submit route overlay.

4. Proceed to assigned objective.

5. Calculate route width (minimum and maximum).

6. Determine shoulder condition (if any).

7. Determine surface material.

8. Plot length of passable route.

9. List obstacles.

10. Indicate special weather conditions which may affect the route.

11. Classify road(s) (if any).

12. Record cover and concealment.

13. Calculate tunnel specifications.

14. Classify bridge(s) (if any).

15. Determine wet gap fording/bridging/ferrying sites.

16. Identify suitable bypasses.

17. Classify the route.

18. Submit reconnaissance report(s) and overlays.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance

2. FMFM 13, MAGTF Engineer Operations

3. MCRP 3-17A, Engineer Field Data

4. MCRP 3-17B, Engineer Forms and Reports

DISTANCE LEARNING PRODUCT(S):

1. MCI 0381, Land Navigation

2. MCI 1373, Basic Engineering: Combat Operations

TASK: 1371.02.11 (CORE PLUS) CONDUCT ENGINEER RECONNAISSANCE PATROL

CONDITION(S): Provided a mission, map of the area, compass, measuring tape, appropriate reconnaissance reporting forms, personnel, and references.

STANDARD(S): To identify information which will impact engineer operations per the references.

PERFORMANCE STEPS:

1. Review the mission to insure understanding of all aspects of the mission.

2. Select types of equipment to be used.

3. Brief the patrol members on the mission.

4. Submit patrol overlays.

5. Inform the engineer officer when patrol is ready.

6. Debrief upon completion.

7. Submit required forms.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance

2. FMFM 13, MAGTF Engineer Operations

3. MCRP 3-17A, Engineer Field Data

4. MCRP 3-17B, Engineer Forms and Reports

DISTANCE LEARNING PRODUCT(S):

1. MCI 0335, Infantry Patrolling

2. MCI 0381, Land Navigation

3. MCI 1373, Basic Engineering: Combat Operations

TASK: 1371.02.12 (CORE PLUS) CLASSIFY BRIDGES

CONDITION(S): Provided a mission, a bridge, a Bridge Reconnaissance Report (DA Form 1249), and references.

STANDARD(S): To determine the military load classification (MLC) of the bridge per the references.

PERFORMANCE STEPS:

1. Determine hasty bridge classification (for immediate crossing).

2. Determine the road classification.

3. Complete required reports.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance

2. FM 5-446, Military Non-Standard Fixed Bridges

3. MCRP 3-17A, Engineer Field Data

TASK: 1371.02.13 (CORE PLUS) CONSTRUCT TACTICAL LANDING ZONE (TLZ)

CONDITION(S): Provided a mission, TLZ construction requirements, personnel, tools and equipment, and references.

STANDARD(S): To meet the design specifications and the references.

PERFORMANCE STEPS:

1. Review the mission.
2. Brief/Instruct the crew on the mission/assignment.
3. Select site.
4. Enforce safety precautions.
5. Ensure that the TLZ meets required specifications.
6. Debrief the crew.
7. Inform the engineer officer of project status.
8. Submit required reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. FM 5-430-00-2, Volume 2, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations
2. MCRP 3-17B, Engineer Forms and Reports
3. MCRP 4-11.3E VOL I, Multi-Service Helicopter Sling Load: Basic Operations
4. MCRP 4-11.3E VOL II, Multi Service Helicopter Sling Load: Single Point Rigging Procedures
5. MCRP 4-11.3E VOL III, Multi-Service Helicopter Sling Load: Dual Point Rigging Procedures
6. NAVAIR 51-60-A-1, Installation, Maintenance, Repackaging and Illustrated Parts Breakdown, AM-2 Airfield Landing Mat and Accessories

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TASK: 1371.02.14 (CORE PLUS) REPAIR DAMAGED AIRFIELDS

CONDITION(S): Provided an area, mission, personnel, tools, equipment, matting, construction drawings, blueprints, specifications, and references.

STANDARD(S): To restore the airfield to minimum operational capability per the references.

PERFORMANCE STEPS:

1. Review the mission.
2. Conduct airfield damage assessment.
3. Determine types of repair required.
4. Estimate personnel and equipment required.
5. Brief crew on mission.
6. Enforce safety precautions.
7. Ensure the repairs meet required specifications.
8. Debrief the crew.
9. Inform the engineer officer of project completion.
10. Complete required paperwork.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Sgt

REFERENCE(S):

1. Navy/Marine Corps Runway Crater Repair (Interim Handbook), Navy Civil Engineering Laboratory, Port Hueneme
2. MCRP 3-17A, Engineer Field Data
3. NAVAIR 00-80T-115, Expeditionary Airfields NATOPS Manual
4. NAVAIR 51-60-A-1, Installation, Maintenance, Repackaging and Illustrated Parts Breakdown, AM-2 Airfield Landing Mat and Accessories

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TASK: 1371.02.15 (CORE PLUS) ASSEMBLE PREFABRICATED STRUCTURES

CONDITION(S): Provided a mission, prefabricated structure, tools, construction site, and manufacturer's instructions.

STANDARD(S): To ensure they are stable, assembled per manufacturer's instructions, and firmly attached to foundation.

PERFORMANCE STEPS:

1. Inventory building components.
2. Assemble prefabricated structure per manufacturer's instructions.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. Appropriate Manufacturer's Assembly Manual/Instructions

TASK: 1371.02.16 (CORE) CONDUCT DEMOLITION RECONNAISSANCE

CONDITION(S): Provided a mission to conduct a reconnaissance of a target designated for demolition, map of area, compass, measuring tape, and DA Form 2203-R.

STANDARD(S): To detail all required information specified in the mission per the references.

PERFORMANCE STEPS:

1. Conduct map reconnaissance of route.
2. Proceed to assigned objective.
3. Estimate explosives and logistics required.
4. Estimate personnel and time required to complete mission.
5. Identify bypass requirements.
6. Sketch a situation map.
7. Sketch side views of target and cross sections of members to be cut.
8. Sketch a plan of the firing circuits and firing points.
9. Submit reconnaissance report.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance
2. FM 5-250, Explosives and Demolitions
3. MCRP 3-17A, Engineer Field Data
4. MCRP 3-17B, Engineer Forms and Reports

DISTANCE LEARNING PRODUCT(S):

1. MCI 034, Landmine Warfare, Demolitions, and Breaching Operations
2. MCI 1373, Basic Engineering: Combat Operations

TASK: 1371.02.17 (CORE) BREACH FOREIGN MINEFIELDS

CONDITION(S): Provided a mission, personnel, explosives and demolitions equipment, bangalore torpedoes, Anti-Personnel Obstacle Breaching System (APOBS), mine probes, mine detectors, protective armor, and references.

STANDARD(S): To ensure all mines in the lane are located, marked, and destroyed in place (or removed) with no injury to personnel or damage to friendly force equipment while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Visually identify foreign mines.
2. Locate foreign mines by probing.
3. Locate foreign mines using mine detectors.
4. Breach a lane with bangalore torpedoes/APOBS/hand placed charges.
5. Mark a minefield safety lane for day and night passage.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: PFC

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations
2. FM 21-75, Combat Skills of the Soldier
3. FM 5-250, Explosives and Demolitions
4. FM 90-13-1, Combined Arms Breaching Operations
5. FMFM 13, MAGTF Engineer Operations
6. FMFM 13-7, MAGTF Breaching Operations
7. MCRP 3-17A, Engineer Field Data
8. TM 5-280, Foreign Mine Warfare Equipment

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
G940	GRENADE, HAND, SMOKE, GREEN	0.200 EA	1.000 EA	4.000 EA
G945	GRENADE, HAND, SMOKE, YELLOW	0.200 EA	1.000 EA	4.000 EA
L495	FLARE, SURFACE, TRIP, M49A1	0.200 EA	1.000 EA	4.000 EA
L594	SIMULATOR, PROJ GROUND BURST	0.334 EA	1.000 EA	4.000 EA
L598	SIMULATOR, FLASH, BOOBYTRAP	0.334 EA	1.000 EA	4.000 EA
M023	CHG, DEMO, 1 1/4 LB BLOCK C-41	0.000 EA	4.000 EA	16.000 EA
M028	DEMO KIT, BANGALORE TORPEDO	0.000 EA	0.100 EA	0.400 EA
M030	CHG, DEMO, 1/4 LB BLOCK TNT	0.500 EA	2.000 EA	8.000 EA
M032	CHG, DEMO, 1-LB BLOCK TNT	0.000 EA	5.000 EA	20.000 EA
M130	CAP, BLASTING, ELEC	0.500 EA	2.000 EA	8.000 EA

15 per class

M131 CAP, BLASTING, NON-ELEC
0.500 EA 11.000 EA 44.000 EA

15 per class

DISTANCE LEARNING PRODUCT(S):

1. MCI 034, Landmine Warfare, Demolitions, and Breaching Operations

2. MCI 1373, Basic Engineering: Combat Operations

ADMINISTRATIVE INSTRUCTIONS: APOBS 0.034 0.5 2.0

TASK: 1371.02.18 (CORE) EMPLOY M58/M68 LINEAR DEMOLITION CHARGE

CONDITION(S): Provided a mission, a minefield, M58/M68 Linear Demolition Charge, MK 22 Rocket, MK 155 Trailer Mounted Launcher, towing vehicle, an area to fire the charge, and references.

STANDARD(S): To clear a lane through a minefield while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Inspect all equipment.

2. Set up M58/M68/M155 for employment.

3. Perform all circuit/pre-operational checks.

4. Move to firing area, ensuring proper standoff distance is achieved.

5. Fire the rocket.

6. Fire the charge.

7. Perform immediate actions for misfire (if required).

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Cpl

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 21-75, Combat Skills of the Soldier

3. FM 5-101, Mobility

4. TM 08982A-14&P/2B, Operator’s Manual for MK 155 Mine Clearance System

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
J143	RKT MOTOR, 5" F/M913 & M914	1.000 EA	1.000 EA	4.000 EA
M913	CHG, DEMO, LINEAR, HE, M58A2	0.000 EA	1.000 EA	4.000 EA
M914	CHG, DEMO, LINEAR, INERT, M68	0.334 EA	0.334 EA	1.336 EA

ADMINISTRATIVE INSTRUCTIONS: Instructor will ensure an opportunity for the student to react to a misfire.

TASK: 1371.02.19 (CORE) DESTROY NONEXPLOSIVE OBSTACLES

CONDITION(S): Provided a mission, a designated area with obstacle(s), personnel, engineer tools, demolitions tools, explosives, and references.

STANDARD(S): To ensure friendly force mobility is not fixed, turned, blocked, nor disrupted; with no injury to personnel or damage to equipment/structures; while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Identify location of all obstacles requiring demolition.

2. Formulate plan to destroy obstacles.

3. Reduce the obstacle.
   a. Blast a hole with a shaped charge.
   b. Breach wire entanglements with APOBS/bangalore torpedoes.
   c. Cut wood or timber using explosives.
   d. Cut steel using explosives.
   e. Breach concrete using explosives.
   f. Destroy log obstacles using explosives.

4. Mark the lane.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. FM 5-101, Mobility

2. FM 5-250, Explosives and Demolitions

3. FM 90-13-1, Combined Arms Breaching Operations

4. FMFM 13-7, MAGTF Breaching Operations

5. MCRP 3-17A, Engineer Field Data

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
M028	DEMO KIT, BANGALORE TORPEDO	0.100 EA	0.250 EA	1.000 EA
	1 section per class			
M032	CHG, DEMO, 1-LB BLOCK TNT	2.333 EA	2.000 EA	8.000 EA
M039	CHG, DEMO, CRATERING, 40 LB	0.034 EA	1.000 EA	4.000 EA
M131	CAP, BLASTING, NON-ELEC	2.100 EA	2.000 EA	8.000 EA
	*This item may be substituted for M130. Number of blasting caps required for this task is based on quantities of explosive allotted. Each system should be dual primed using 2 caps per type of explosive charge.			
M420	CHG, DEMO, SHAPED, 15 LB	0.034 EA	1.000 EA	4.000 EA
	1 per class			
M456	DETONATING CORD	10.000 FT	50.000 FT	200.000 FT
M591	DYNAMITE, MILITARY	0.334 EA	5.000 EA	20.000 EA
M670	FUZE, BLASTING, TIME	20.000 FT	50.000 FT	200.000 FT
	Quantity of time fuse will vary depending on range target location and safety bunker.			
M757	CHG, DEMO, M183 W/ACCESSORIES	0.100 EA	2.000 EA	8.000 EA
	2.5 per class			
M766	IGNITOR, TIME, BLASTING, M60	3.100 EA	4.000 EA	16.000 EA
	*This item may be substituted for M130.			

DISTANCE LEARNING PRODUCT(S):

1. MCI 034, Landmine Warfare, Demolitions, and Breaching Operations

2. MCI 1373, Basic Engineering: Combat Operations

ADMINISTRATIVE INSTRUCTIONS: APOBS

TASK: 1371.02.20 (CORE) CONDUCT OBSTACLE BREACHING OPERATIONS

CONDITION(S): Provided a mission, a designated area, personnel, demolitions tools, explosives, improvised materials, and references.

STANDARD(S): To ensure the proper reduction of enemy obstacles while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review the mission and reconnaissance reports.

2. Organize obstacle clearing detachment.

3. Proceed to the obstacle area.

4. Supress enemy fire and set up site security.

5. Identify location of all obstacles and possible bypass routes.

6. Obscure entire obstacle area.

7. Direct reduction of the obstacle/breach lane.

8. Mark the lane.

9. Control movement through the breach.

10. Turnover the breaching lane.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Sgt

REFERENCE(S):

1. FM 5-101, Mobility

2. FM 5-250, Explosives and Demolitions

3. FM 90-13-1, Combined Arms Breaching Operations

4. FMFM 13-7, MAGTF Breaching Operations

5. MCRP 3-17A, Engineer Field Data

DISTANCE LEARNING PRODUCT(S):

1. MCI 034, Landmine Warfare, Demolitions, and Breaching Operations

2. MCI 1373, Basic Engineering: Combat Operations

TASK: 1371.02.21 (CORE PLUS) ENGAGE TARGETS WITH EXPEDIENT DEMOLITIONS

CONDITION(S): Provided a mission, a designated area, personnel, demolitions tools, explosives, improvised materials, and references.

STANDARD(S): To damage/destroy targets without causing injury to personnel or damage to friendly force equipment/structures while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review the mission.

2. Construct a platter charge.

3. Construct an expedient "claymore" charge.

4. Construct a grape shot directional charge.

5. Construct an omni (360 degree) charge.

6. Construct expedient shaped charge.

7. Construct expedient flame mine.

8. Construct expedient bangalore torpedo.

9. Engage the target.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Cpl

REFERENCE(S):

1. FM 21-75, Combat Skills of the Soldier

2. FM 5-250, Explosives and Demolitions

3. MCRP 3-17A, Engineer Field Data

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
M130	CAP, BLASTING, ELEC	0.500 EA	14.000 EA	56.000 EA
	Number of blasting caps required for this task is based on quantities of explosive allotted. Each system should be dual primed using 2 caps per type of explosive charge.			
M131	CAP, BLASTING, NON-ELEC	0.500 EA	14.000 EA	56.000 EA
	*This item may be substituted for M130. Number of blasting caps required for this task is based on quantities of explosive allotted. Each system should be dual primed using 2 caps per type of explosive charge.			
M456	DETONATING CORD	20.000 FT	250.000 FT	1000.000 FT
M670	FUZE, BLASTING, TIME	5.000 FT	50.000 FT	200.000 FT
	Quantity of time fuse will vary depending on range target location and safety bunker.			
M757	CHG, DEMO, M183 W/ACCESSORIES	0.034 EA	1.000 EA	4.000 EA
M766	IGNITOR, TIME, BLASTING, M60	0.667 EA	15.000 EA	60.000 EA
	*This item may be substituted for M130.			

TASK: 1371.02.22 (CORE) PERFORM DEMOLITIONS UTILIZING SPECIALIZED EXPLOSIVES

CONDITION(S): Provided a mission to destroy or disable a target requiring the use of specialized explosives and techniques, personnel, remote firing devices, demolition tools, explosives, and references.

STANDARD(S): To damage/destroy targets without causing injury to personnel or damage to friendly force equipment/structures while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review the mission.
2. Choose proper explosive.
3. Calculate correct quantity of explosive.
4. Place the charge on the target.
5. Prime the explosive.
6. Detonate the explosive.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Sgt

REFERENCE(S):

1. Appropriate Explosive Reference
2. FM 5-250, Explosives and Demolitions
3. MCRP 3-17A, Engineer Field Data

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
AX14	12 GAGE PRIMERS	0.000 EA	4.000 EA	16.000 EA
M130	CAP, BLASTING, ELEC 15 per class	0.500 EA	10.000 EA	40.000 EA
M131	CAP, BLASTING, NON-ELEC 15 per class	0.500 EA	10.000 EA	40.000 EA
M670	FUZE, BLASTING, TIME	5.000 FT	50.000 FT	200.000 FT
M757	CHG, DEMO, M183 W/ACCESSORIES 1 per class	0.034 EA	0.000 EA	0.000 EA
M766	IGNITOR, TIME, BLASTING, M60 20 per class	0.667 EA	11.000 EA	44.000 EA
M982	CHG, DEMO EXPLOSIVE SHEET 19FT 4 per class	0.250 FT	0.250 FT	1.000 FT
MM30	CHARGE, FLSC, 20GR, FT 1 per class	0.250 EA	4.000 EA	16.000 EA
MM44	CHARGE, FLSC, 75GR, FT 1 per class	0.034 EA	1.000 EA	4.000 EA
MM46	CHARGE, FLSC, 225GR, FT 1 per class	0.034 EA	1.000 EA	4.000 EA
MM47	CHARGE, FLSC, 400GR, FT 1 per class	0.034 EA	1.000 EA	4.000 EA

MM48	CHARGE, FLSC, 600GR, FT 1 per class	0.034 EA	1.000 EA	4.000 EA
MM56	NONEL DET, 175MS DLY, 100FT 1 per class	0.034 EA	4.000 EA	16.000 EA

TASK: 1371.02.23 (CORE PLUS) EMPLOY A BALLISTIC DISK

CONDITION(S): Given a designated target, ballistic disk kit, explosives, squad demolition kit, and reference.

STANDARD(S): To damage/destroy targets without causing injury to personnel or damage to friendly force equipment/structures while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review the mission.
2. Select the appropriate ballistic disk.
3. Assemble the charge.
4. Prepare a priming system.
5. Position the charge.
6. Detonate the charge.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Urban Mobility Engineer's Guidebook
2. FM 5-250, Explosives and Demolitions
3. MCRP 3-17A, Engineer Field Data

TRAINING MATERIEL:

1. * Ballistic Disk Kit

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
M130	CAP, BLASTING, ELEC	0.000 EA	2.000 EA	2.000 EA
M131	CAP, BLASTING, NON-ELEC	0.000 EA	2.000 EA	2.000 EA
	*This item may be substituted for M130.			
M670	FUZE, BLASTING, TIME Quantity of time fuse will vary depending on range target location and safety bunker.	0.000 FT	12.000 FT	12.000 FT

M757 CHG, DEMO, M183 W/ACCESSORIES	0.000 EA	1.000 EA	1.000 EA
M766 IGNITOR, TIME, BLASTING, M60	0.000 EA	2.000 EA	2.000 EA

*This item may be substituted for M130.

TASK: 1371.02.24 (CORE PLUS) CONDUCT FIELD IDENTIFICATION OF SOIL

CONDITION(S): Provided a mission, an area to conduct soil testing, and references.

STANDARD(S): To classify soil per Unified Soil Classification System and the references.

PERFORMANCE STEPS:

1. Review the mission.
2. Conduct field soil identification.
3. Report results.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. FM 5-410, Military Soils Engineering
2. FM 5-530, Materials Testing
3. MCRP 3-17A, Engineer Field Data

TASK: 1371.02.25 (CORE PLUS) DESIGN EXPEDIENT DRAIN STRUCTURES

CONDITION(S): Provided a map, mission, drainage structure requirement, and references.

STANDARD(S): To intercept, collect, and remove surface water flowing toward a designated area from adjacent areas per the references.

PERFORMANCE STEPS:

1. Review the mission, construction drawings, blueprints, or specifications.
2. Calculate area of waterway/peak run off.
3. Determine type of drainage structure required.
4. Calculate size/amount of culvert required.
5. Design a drainage ditch.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Sgt

REFERENCE(S):

1. FM 5-33, Terrain Analysis

2. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

3. MCRP 3-17A, Engineer Field Data

TASK: 1371.02.26 (CORE PLUS) CONSTRUCT EXPEDIENT DRAINAGE STRUCTURES

CONDITION(S): Provided a mission, personnel, tools and equipment, construction materials, construction drawings, blueprints, specifications, and references.

STANDARD(S): To ensure constructed drainage structure will intercept, collect, and remove surface water flowing toward a designated area from adjacent areas per the references.

PERFORMANCE STEPS:

1. Review the mission.

2. Brief/Instruct the crew on the mission/assignment.

3. Enforce safety precautions.

4. Ensure the drainage structure meets required specifications.

5. Debrief the crew.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. FM 5-33, Terrain Analysis

2. FM 5-430-00-1, Volume 1, Planning and Design of Roads, Airbases, and Heliports in the Theater of Operations

3. MCRP 3-17A, Engineer Field Data

TASK: 1371.02.27 (CORE PLUS) CLASSIFY ROADS

CONDITION(S): Provided a mission, a road, a Road Reconnaissance Report (DA Form 1248), and references.

STANDARD(S): To determine the trafficability of the road by using the proper formula for road classification per the references.

PERFORMANCE STEPS:

1. Determine hasty bridge classification (for immediate crossing, if any).

2. Determine the road classification.

3. Complete required reports.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance

2. FM 5-446, Military Non-Standard Fixed Bridges

3. MCRP 3-17A, Engineer Field Data

4. MCRP 3-17B, Engineer Forms and Reports

TASK: 1371.02.28 (CORE) ASSIST IN ERECTING A MEDIUM GIRDER BRIDGE (MGB)

CONDITION(S): Provided a bridge site, Medium Girder Bridge (MGB) set, a mission, engineer handtools, and references.

STANDARD(S): To meet mission requirements while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Identify major bridge components.

2. Assemble far end of the bridge.

3. Assemble bridge bays.

4. Install launching nose.

5. Assemble near end of bridge.

6. Launch the bridge.

7. Ground the bridge.

8. Dress the bridge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCRP 3-17A, Engineer Field Data

2. TM 08676A-10/1-1, Operator’s Manual, MGB

TASK: 1371.02.29 (CORE) ASSIST IN RETRIEVING A MEDIUM GIRDER BRIDGE (MGB)

CONDITION(S): Provided a bridge site, Medium Girder Bridge (MGB) set, mission, engineer handtools, and references.

STANDARD(S): To meet mission requirements while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Undress the bridge.
2. Install the launching nose.
3. Retrieve the bridge.
4. Disassemble the bridge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MCRP 3-17A, Engineer Field Data
2. TM 08676A-10/1-1, Operator’s Manual, MGB

DUTY AREA 03 - COUNTERMOBILITY

TASK: 1371.03.01 (CORE) CONSTRUCT WIRE OBSTACLES

CONDITION(S): Provided a mission, barbed wire, concertina, pickets, tools, and references.

STANDARD(S): To tie into existing natural or other manmade obstacles so enemy movement/maneuvers are fixed, turned, blocked, or disrupted as required by the mission while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Receive the mission.
2. Determine type of entanglement required.
3. Install pickets.
4. Make barbed wire ties.
5. Fasten standard barbed wire to U-shaped pickets with post tie.
6. Use apron tie whenever two wires that cross must be tied together.
7. Place end hoop over end picket.
8. Layout wire.
9. Install wire.
10. Tighten loose wires by racking with a short stick.
11. Connect concertinas.
12. Install horizontal barbed wire.
13. Stagger joints of multirow fences.
14. Install and rack a top row of concertina.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: PFC

REFERENCE(S):

1. FM 5-102, Countermobility
2. MCRP 3-17A, Engineer Field Data

TASK: 1371.03.02 (CORE) CONSTRUCT ABATIS

CONDITION(S): Provided a mission, a designated area, personnel, timber cutting tools, demolition tools, explosives, and references.

STANDARD(S): To tie into existing natural or other manmade obstacles so enemy movement/maneuvers are fixed, turned, blocked, or disrupted as required by the mission while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Determine size/type of charges required.

2. Ensure proper placement of charge(s) so desired effect is obtained.

3. Drop timber five feet above ground level so that felled trunk will remain attached to the stump.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: PFC

REFERENCE(S):

1. FM 5-102, Countermobility

2. FM 5-250, Explosives and Demolitions

3. MCRP 3-17A, Engineer Field Data

TASK: 1371.03.03 (CORE) CONSTRUCT LOG OBSTACLES

CONDITION(S): Provided a mission, a designated area, personnel, engineer tools, and references.

STANDARD(S): To tie into existing natural or other manmade obstacles so enemy movement/maneuvers are fixed, turned, blocked, or disrupted as required by the mission while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Receive the mission.

2. Procure and cut timber to size.

3. Place timber.

4. Fill as necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: PFC

REFERENCE(S):

1. FM 5-102, Countermobility

2. FM 5-250, Explosives and Demolitions

3. MCRP 3-17A, Engineer Field Data

TASK: 1371.03.04 (CORE PLUS) RECOMMEND OBSTACLE PLACEMENT

CONDITION(S): Provided a mission, an area map, reconnaissance reports, and the reference.

STANDARD(S): To enable obstacles to tie into existing natural or other manmade obstacles so that enemy movement/maneuvers are fixed, turned, blocked, or disrupted as required by the mission per the reference.

PERFORMANCE STEPS:

1. Review the mission, the area map, and the reconnaissance reports.

2. Recommend obstacle type, placement, and a justification for use of each.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. FM 5-102, Countermobility

TASK: 1371.03.05 (CORE PLUS) CREATE CRATERS AND DITCHES USING EXPLOSIVES

CONDITION(S): Provided a mission, a designated area, personnel, demolitions tools, explosives, and references.

STANDARD(S): To tie into existing natural or other manmade obstacles so enemy movement/maneuvers are fixed, turned, blocked, or disrupted as required by the mission; while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Receive the mission.

2. Determine amount and type explosives required to obtain desired effect.

3. Create craters and ditches.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: PFC

REFERENCE(S):

1. FM 5-102, Countermobility

2. FM 5-250, Explosives and Demolitions

3. MCRP 3-17A, Engineer Field Data

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
M032	CHG, DEMO, 1-LB BLOCK TNT	0.000 EA	2.000 EA	4.000 EA
M039	CHG, DEMO, CRATERING, 40 LB	0.000 EA	1.000 EA	2.000 EA
M130	CAP, BLASTING, ELEC	0.000 EA	8.000 EA	16.000 EA
M131	CAP, BLASTING, NON-ELEC	0.000 EA	8.000 EA	16.000 EA
M420	CHG, DEMO, SHAPED, 15 LB	0.000 EA	1.000 EA	2.000 EA
M421	CHG, DEMO, SHAPED, 40 LB	0.000 EA	1.000 EA	2.000 EA
M456	DETONATING CORD	0.000 FT	50.000 FT	100.000 FT
M591	DYNAMITE, MILITARY	0.000 EA	5.000 EA	10.000 EA
M670	FUZE, BLASTING, TIME	0.000 FT	50.000 FT	100.000 FT
M766	IGNITOR, TIME, BLASTING, M60	0.000 EA	10.000 EA	20.000 EA

TASK: 1371.03.06 (CORE PLUS) CONSTRUCT BOOBY TRAPS

CONDITION(S): Provided a mission order, a designated area, personnel, demolitions tools, explosives, DA Form 1355, and references.

STANDARD(S): To tie into existing natural or other manmade obstacles so enemy movement/maneuvers are fixed, turned, blocked, or disrupted as required by the mission; while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review the mission.
2. Perform area reconnaissance.
3. Determine location for booby traps.
4. Determine type of firing devices to be used.
5. Determine amount and types of explosive to be used.
6. Complete the firing chain.
7. Arm the booby traps.
8. Camouflage the booby traps and return the area to its natural state.
9. Record the booby traps on DA Form 1355.
10. Turn in all safety pins and clips to the NCOIC.
11. Submit required reports.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Cpl

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 21-75, Combat Skills of the Soldier

3. FM 5-250, Explosives and Demolitions

4. MCRP 3-17B, Engineer Forms and Reports

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
G930	GRENADE, HAND, SMOKE, HC, M8	0.000 EA	1.000 EA	2.000 EA
G940	GRENADE, HAND, SMOKE, GREEN	0.070 EA	1.000 EA	2.000 EA
	2 per class			
G945	GRENADE, HAND, SMOKE, YELLOW	0.070 EA	1.000 EA	2.000 EA
	2 per class			
L495	FLARE, SURFACE, TRIP, M49A1	0.100 EA	1.000 EA	2.000 EA
	3 per class			
L594	SIMULATOR, PROJ GROUND BURST	0.000 EA	1.000 EA	2.000 EA
L598	SIMULATOR, FLASH, BOOBYTRAP	0.170 EA	1.000 EA	2.000 EA
	5 per class			
M327	BASE COUPLING FIRING DEVICE	1.000 EA	0.000 EA	0.000 EA
ML03	FIRING DEVICE, DEMO, MP, M142	1.000 EA	2.000 EA	4.000 EA

TASK: 1371.03.07 (CORE PLUS) DESTROY BRIDGES USING EXPLOSIVES

CONDITION(S): Provided a mission, a bridge reconnaissance report, a designated area, personnel, demolitions tools, explosives, and references.

STANDARD(S): To fix, turn, block, or disrupt enemy mobility as required by the mission; while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review the mission and the bridge reconnaissance report.

2. Ensure site security.

3. Calculate required charges.

4. Ensure proper placement of charges.

5. Perform bridge, abutment, and pier demolition.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: SSgt

REFERENCE(S):

1. FM 5-102, Countermobility

2. FM 5-250, Explosives and Demolitions

3. MCRP 3-17A, Engineer Field Data

TASK: 1371.03.08 (CORE PLUS) EMPLACE HASTY PROTECTIVE MINEFIELDS

CONDITION(S): Provided a temporary position, mission, personnel, compass, map, protractor, mines, DA Form 1355-1-R, mine detectors, probes, and references.

STANDARD(S): To tie into existing natural or other manmade obstacles so that enemy movement/maneuvers are fixed, turned, blocked, or disrupted as required by the mission. The hasty protective minefields will be removed so that the mines are disarmed, removed, and inventoried per the mission; while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review the mission, the map of the area, and reconnaissance reports.

2. Determine enemy avenues of approach for armor and/or infantry.

3. Determine location for observation posts.

4. Determine logistical requirements for mine dump.

5. Identify key terrain features forming natural boundaries and obstacles.

6. Set up security.

7. Locate a permanent reference point in front of platoon position.

8. Designate a location for each mine and row marker in at least two rows.

9. Emplace mines as required.

10. Arm the mines.

11. Camouflage the mines.

12. Verify count of all safety pins and clips and turn-in to NCOIC.

13. Submit required reports to higher headquarters. (Intent, Initiation, Progress, Completion, Transfer)

14. Complete DA Form 1355-1-R.

15. Plot an azimuth from the reference point and/or the landmark to the end marker in the last row on the friendly forces side.

16. Identify and disarm the mines.

17. Remove mines.

18. Restore terrain to its natural state.

19. Destroy the minefield record, if required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations
2. FM 21-75, Combat Skills of the Soldier
3. FM 5-102, Countermobility
4. MCRP 3-17A, Engineer Field Data
5. MCRP 3-17B, Engineer Forms and Reports

DISTANCE LEARNING PRODUCT(S):

1. MCI 034, Landmine Warfare, Demolitions, and Breaching Operations

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TASK: 1371.03.09 (CORE) EMPLACE MINE CLUSTERS

CONDITION(S): Provided personnel, equipment, compass, mines to be emplaced, mission, personnel, mine detector, DA Form 1355, and references.

STANDARD(S): To tie into existing natural or other manmade obstacles so that enemy movement/maneuvers are fixed, turned, blocked, or disrupted as required by the mission per the references.

PERFORMANCE STEPS:

1. Lay the mine clusters.
2. Place tripwire spools next to designated mines.
3. Mark AT mines designated for anti-handling devices.
4. Dig holes for mines.
5. Emplace mines as required.
6. Arm the mines.
7. Bury and camouflage the mines.
8. Place all extra soil and refuse in sandbags, placing sandbags on centerline tape opposite each base mine.
9. Remove all tape, debris, and sandbags, restoring the area to its natural state.
10. Identify mines by type.
11. Recover safety clips.
12. Locate the base mine in each cluster using a mine detector.
13. Uncover the mines.

14. Remove anti-handling devices (if present) and disarm the mines.

15. Remove mines to centerline.

16. Remove/cut tripwires.

17. Inventory all mines and dispose of properly.

18. Return area to natural state.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: PFC

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations

2. FM 21-75, Combat Skills of the Soldier

3. FM 5-102, Countermobility

4. FM 5-250, Explosives and Demolitions

5. MCRP 3-17A, Engineer Field Data

6. MCRP 3-17B, Engineer Forms and Reports

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
G930	GRENADE, HAND, SMOKE, HC, M8	0.000 EA	1.000 EA	1.000 EA
G940	GRENADE, HAND, SMOKE, GREEN	0.000 EA	1.000 EA	1.000 EA
G945	GRENADE, HAND, SMOKE, YELLOW	0.000 EA	1.000 EA	1.000 EA
K002	ACTIVATOR F/AT MINE (K230/231)	1.000 EA	1.000 EA	1.000 EA
K051	FUZE, MINE, PRACT, (K230/231)	1.000 EA	1.000 EA	1.000 EA
K143	MINE, APERS, M18A1, W/ACCES	0.070 EA	1.000 EA	1.000 EA
	2 per class			
K180	MINE, AT, HEAVY, M15	0.034 EA	1.000 EA	1.000 EA
	1 per class			
K181	MINE, AT, HEAVY, M21	0.034 EA	1.000 EA	1.000 EA
	1 per class			
K231	MINE, PRACTICE, AT, HEAVY, M20	1.000 EA	1.000 EA	1.000 EA
L495	FLARE, SURFACE, TRIP, M49A1	0.000 EA	1.000 EA	1.000 EA
L594	SIMULATOR, PROJ GROUND BURST	0.000 EA	1.000 EA	1.000 EA
L598	SIMULATOR, FLASH, BOOBYTRAP	0.000 EA	1.000 EA	1.000 EA
M130	CAP, BLASTING, ELEC	0.100 EA	1.000 EA	1.000 EA
	3 per class			
M627	FIRING DEVICE, DEMO, M5	1.000 EA	1.000 EA	1.000 EA
M757	CHG, DEMO, M183 W/ACCESSORIES	0.034 EA	1.000 EA	1.000 EA
	1 per class			
ML03	FIRING DEVICE, DEMO, MP, M142	1.000 EA	1.000 EA	1.000 EA

DISTANCE LEARNING PRODUCT(S):

1. MCI 034, Landmine Warfare, Demolitions, and Breaching Operations

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TASK: 1371.03.10 (CORE PLUS) EMPLACE ROW MINEFIELDS

CONDITION(S): Provided a mission, personnel, equipment, compass, map, protractor, DA Form 1355, and references.

STANDARD(S): To tie into existing natural or other manmade obstacles so that enemy movement/maneuvers are fixed, turned, blocked, or disrupted as required by the mission; while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Review the mission, the map of the area, and reconnaissance reports.
2. Determine enemy avenues of approach for armor and/or infantry.
3. Determine location for observation posts.
4. Determine logistical requirements for mine dump.
5. Locate key terrain features forming natural boundaries and obstacles.
6. Ensure site security.
7. Locate a reference point.
8. Submit required reports to higher headquarters (Intent, Initiation, Progress, Completion, Transfer).
9. Emplace mines as required.
10. Verify the arming of all mines.
11. Verify count of all safety pins and clips and turn-in to NCOIC.
12. Submit DA Form 1355.
13. Plot an azimuth from the reference point and/or the landmark.
14. Verify the diarming of all mines.
15. Remove mines.
16. Destroy the minefield record, if required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: SSgt

REFERENCE(S):

1. FM 21-75, Combat Skills of the Soldier
2. MCRP 3-17A, Engineer Field Data

DISTANCE LEARNING PRODUCT(S):

1. MCI 034, Landmine Warfare, Demolitions, and Breaching Operations

DUTY AREA 04 - SURVIVABILITY

TASK: 1371.04.01 (CORE) PLACE REVETMENT MATERIALS

CONDITION(S): Provided a mission, a defensive position, personnel, tools, equipment, materials, and references.

STANDARD(S): To provide protection from enemy fire per the references.

PERFORMANCE STEPS:

1. Receive the mission.
2. Place sandbags to provides maximum protection from enemy fire.
3. Place revetment materials to enhance stability of position.
4. Construct retaining walls as required.
5. Camouflage position(s).

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: PFC

REFERENCE(S):

1. FM 21-75, Combat Skills of the Soldier
2. FM 5-103, Survivability
3. MCRP 3-17A, Engineer Field Data

TASK: 1371.04.02 (CORE PLUS) DESIGN SURVIVABILITY POSITIONS

CONDITION(S): Provided a mission, an area map, reconnaissance reports, and references.

STANDARD(S): To meet mission requirements per the references.

PERFORMANCE STEPS:

1. Review the mission, the area map, and reconnaissance reports.
2. Determine/Design types of positions required.
3. Determine material requirements.
4. Calculate the required time.
5. Prepare a bill of materials.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. FM 5-103, Survivability

2. MCRP 3-17A, Engineer Field Data

TASK: 1371.04.03 (CORE PLUS) CAMOUFLAGE POSITIONS, VEHICLES, OR EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM

CONDITION(S): Provided a mission, an area, vehicle(s), equipment, Lightweight Camouflage Screen, and references.

STANDARD(S): To tie into existing natural or other manmade camouflage per the references.

PERFORMANCE STEPS:

1. Determine required modules of Lightweight Screen required.

2. Assemble modules into one net.

3. Place assembled modules over positions, vehicles, or equipment to be camouflaged.

4. Ensure appropriate blend is showing.

5. Inspect area frequently and upgrade camouflage as needed.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: PFC

REFERENCE(S):

1. FM 20-3, Camouflage

2. FM 5-103, Survivability

3. MCRP 3-17A, Engineer Field Data

DUTY AREA 05 - ADMINISTRATION

TASK: 1371.05.01 (CORE) MAINTAIN MIMMS PROGRAM

CONDITION(S): Provided maintenance directive, T/E, T/O, and maintenance forms.

STANDARD(S): To ensure maintenance management functions, maintenance resources, production, and information meet requirements per the references.

PERFORMANCE STEPS:

1. Maintain a publications library.

2. Complete a Consolidated Engineer Equipment Log and Service Record (NAVMC 10524).

3. Complete an Equipment Repair Order (NAVMC 10245).

4. Complete an ERO Shopping/Transaction List (NAVMC 10925).

5. Complete Engineer Equipment Operational Records (NAVMC 10523).

6. Complete a General Purpose Transaction Documentation (NAVMC 10696).

7. Analyze Daily Processing Report (DPR).

8. Reconcile outstanding supply requests.

9. Complete modification control records.

10. Direct maintenance related programs.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0410, MIMMS (AIS)

TASK: 1371.05.02 (CORE) SUPERVISE AN ORGANIZATIONAL MAINTENANCE PROGRAM

CONDITION(S): Provided Engineer Equipment Operational Record (NAVMC 10523), Consolidated Engineer Equipment Log (NAVMC 10561), T/E, T/O.

STANDARD(S): To ensure maintenance program conforms to the references.

PERFORMANCE STEPS:

1. Supervise preventive maintenance scheduling.

2. Supervise preventive maintenance documentation.

3. Analyze preventive maintenance indicators.

4. Manage maintenance information.

5. Manage maintenance of equipment records.

6. Supervise maintenance of Consolidated Engineer Equipment Log (NAVMC 10524).

7. Supervise maintenance of Engineer Equipment Operational Record (NAVMC 10523).

8. Supervise maintenance of Preventive Maintenance Roster (NAVMC 10561).

9. Supervise maintenance of resource records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. TM 4700-15/1, Equipment Recording Procedures

2. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1371.05.03 (CORE) ANALYZE MAINTENANCE MANAGEMENT RECORDS

CONDITION(S): Provided a Daily Process Report (DPR), Daily Transaction Listing (DTL), Equipment Repair Order (NAVMC 10245), and Equipment Repair Order Shopping List (NAVMC 10925) and the references.

STANDARD(S): To ensure all records conform to the specifications of the references.

PERFORMANCE STEPS:

1. Analyze Daily Process Report (DPR).

2. Analyze requisition procedures.

3. Analyze Daily Transaction Listing (DTL).

4. Analyze equipment records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. TM 4700-15/1, Equipment Recording Procedures

2. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0414, Ground Maintenance Procedures for Supervisors

DUTY AREA 06 - STAFF ADVISOR

TASK: 1371.06.01 (CORE PLUS) EVALUATE MINEFIELD RECORDS/REPORTS

CONDITION(S): Provided minefield records and/or reports, and references.

STANDARD(S): To identify any deficiencies concerning emplacement, marking of minefields, and reporting of minefield data per the references.

PERFORMANCE STEPS:

1. Examine minefield records and reports for deficiencies.
2. List all deficiencies.
3. Return to originator for corrections if necessary.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 20-32, Mine/Countermine Operations
2. MCRP 3-17A, Engineer Field Data
3. MCRP 3-17B, Engineer Forms and Reports

TASK: 1371.06.02 (CORE PLUS) EVALUATE ENGINEER SITUATION REPORTS

CONDITION(S): Provided an engineer situation report and the reference.

STANDARD(S): To summarize information from each heading of the situation report, describe the impact of each heading on engineer operations, and list all deficiencies found in each area per the reference.

PERFORMANCE STEPS:

1. Review the appropriate section(s) of the reference.
2. Examine the situation report.
3. Prepare situation report evaluation.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations
2. MCRP 3-17A, Engineer Field Data
3. MCRP 3-17B, Engineer Forms and Reports

TASK: 1371.06.03 (CORE PLUS) EVALUATE ENGINEER RECONNAISSANCE REPORTS

CONDITION(S): Provided a completed reconnaissance report, an operations plan, an area tactical map, a compass, and references.

STANDARD(S): To specify results of the reconnaissance which require action to support or have impact on the operations plan, and list all deficiencies per the references.

PERFORMANCE STEPS:

1. Review appropriate section(s) of the references.
2. Examine the reconnaissance report(s).
3. Prepare reconnaissance report evaluation.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 5-170, Engineer Reconnaissance
2. MCRP 3-17A, Engineer Field Data
3. MCRP 3-17B, Engineer Forms and Reports

TASK: 1371.06.04 (CORE PLUS) ANALYZE OPERATIONS ORDER TO DETERMINE ENGINEER TASKS/REQUIREMENTS

CONDITION(S): Provided an operations order and the reference.

STANDARD(S): To identify all appendices relating to engineer operations, and list engineer tasks and requirements per the reference.

PERFORMANCE STEPS:

1. Examine the operations order.
2. Review all annexes, appendices, tabs and enclosures for engineer taskings.
3. List all engineer support requirements.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations
2. FMFM 3-1, Command and Staff Action
3. MCWP 5-1, Marine Corps Planning Process

TASK: 1371.06.05 (CORE PLUS) ASSIST IN PREPARATION OF ENGINEER ESTIMATES

CONDITION(S): Provided a mission, reconnaissance reports, intelligence estimates, and the reference.

STANDARD(S): To estimate enemy force disposition and capabilities, characteristics of the operating area, and recommended courses of action per the reference.

PERFORMANCE STEPS:

1. Review the mission, reconnaissance reports, and other intelligence available.

2. Assist in the preparation of the engineer estimate.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations

2. MCWP 5-1, Marine Corps Planning Process

TASK: 1371.06.06 (CORE PLUS) ASSIST IN PREPARATION OF ENGINEER PORTIONS OF AN OPERATIONS ORDER

CONDITION(S): Provided a requirement for an operations order, commander's intent/scheme of maneuver, a mission statement, task organization, basic operational graphics, pencil and paper, and references.

STANDARD(S): To identify and develop necessary elements of the engineer documents in the proper format for inclusion in the operations order per the references.

PERFORMANCE STEPS:

1. Review appropriate section(s) of references.

2. Coordinate input from subordinate engineer elements.

3. Conduct coordination with task Force staff.

4. Assist in preparation of engineer documents.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 5-100, Engineer Combat Operations

2. FMFM 13, MAGTF Engineer Operations

3. FMFM 3-1, Command and Staff Action

4. MCWP 5-1, Marine Corps Planning Process

TASK: 1371.06.07 (CORE PLUS) ADVISE EMPLOYMENT OF ENGINEER ASSETS

CONDITION(S): Provided T/O, T/E, and references.

STANDARD(S): To recommend statement(s) of capability for a unit regarding engineer equipment, personnel, and available resources as directed by Marine Corps orders per the references.

PERFORMANCE STEPS:

1. Review the commander's intent.

2. Review T/O and T/E.

3. Prepare a verbal or written recommendation for employment of engineer assets.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 5-100, Engineer Combat Operations

2. FMFM 13, MAGTF Engineer Operations

3. FMFM 3-1, Command and Staff Action

4. MCWP 5-1, Marine Corps Planning Process

TASK: 1371.06.08 (CORE PLUS) DELIVER BRIEF ON ENGINEER SITUATION

CONDITION(S): Provided an operations order, an engineer situation, a unit commander, and references.

STANDARD(S): To provide a rapid oral description of the current engineer situation; and a summary of the status of current engineer activities, capabilities, and limitations per the references.

PERFORMANCE STEPS:

1. Review the operations order and commander's intent.

2. Review the engineer situation.

3. Develop a briefing outline for the engineer situation.

4. Brief engineer situation to the commander.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 5-100, Engineer Combat Operations
2. FMFM 13, MAGTF Engineer Operations
3. FMFM 3-1, Command and Staff Action
4. MCWP 5-1, Marine Corps Planning Process

TASK: 1371.06.09 (CORE PLUS) PREPARE NON NUCLEAR TARGET FOLDER

CONDITION(S): Provided DA Form 2203-R, blank target folder, photograph of target, maps of target area, drawing paper, pen or pencil, and the references.

STANDARD(S): To meet mission requirements per the references.

PERFORMANCE STEPS:

1. Review DA Form 2203-R.
2. Review the references.
3. Complete the three sections of the target folder.
4. Ensure all sections of the target folder are completed in specified languages.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 5-250, Explosives and Demolitions
2. STANAG 2123, Obstacle Folder

DUTY AREA 07 - PROJECTS AND OPERATIONS

TASK: 1371.07.01 (CORE PLUS) ARRANGE EXTERNAL SUPPORT FOR ENGINEER PROJECTS/OPERATIONS

CONDITION(S): Provided an operations order and references.

STANDARD(S): To provide all required support for a project or operation per the references.

PERFORMANCE STEPS:

1. Determine external support requirements.
2. Coordinate with supporting elements to provide required support.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations
2. FMFM 3-1, Command and Staff Action
3. MCWP 4-1, Logistics Operations
4. MCWP 5-1, Marine Corps Planning Process

TASK: 1371.07.02 (CORE PLUS) COMPLETE STANDARD ENGINEER REPORTS

CONDITION(S): Provided a mission and references.

STANDARD(S): To identify engineer activities currently being performed to include report of progress, equipment, and manpower utilization for each activity per the reference.

PERFORMANCE STEPS:

1. Review the mission.
2. Perform a site survey.
3. Complete engineer reports.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations
2. MCRP 3-17B, Engineer Forms and Reports

TASK: 1371.07.03 (CORE PLUS) ESTABLISH OPERATIONS CENTER

CONDITION(S): Provided a mission, personnel, a tent or other type of elemental shelter, communications equipment, a site for the operations center, and references.

STANDARD(S): To enhance efficiency in intrastaff coordination, minimize internal traffic, maximize communications, and maintain security per the references.

PERFORMANCE STEPS:

1. Review the mission and commander's intent.
2. Determine personnel requirements.
3. Establish communication plan within the Command Operations Center (COC).
4. Coordinate for physical security.
5. Assess cover and concealment requirements.
6. Establish security plan.
7. Ensure site isolation from major enemy avenues of approach.
8. Ensure set up of elemental shelter.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: MSgt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations
2. FMFM 3-1, Command and Staff Action
3. MCWP 4-1, Logistics Operations
4. MCWP 5-1, Marine Corps Planning Process

TASK: 1371.07.04 (CORE PLUS) DETERMINE SOURCES OF SUPPORT FOR ENGINEER/OTHER COMBAT SUPPORT REQUIREMENTS

CONDITION(S): Provided a support requirement, task organization, and references.

STANDARD(S): To ensure each support requirement will be identified per the references.

PERFORMANCE STEPS:

1. Analyze support requirement.
2. Review task organization.
3. Review command responsibilities.

4. Determine appropriate sources of support.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations
2. MCWP 4-1, Logistics Operations
3. TM 11275-15/3C, Technical Characteristics of Engineer Equipment

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TASK: 1371.07.05 (CORE PLUS) ADMINISTER FACILITY MAINTENANCE PROGRAM

CONDITION(S): Provided a maintenance job order/work request and reference.

STANDARD(S): To ensure each order/work request will be completed using the most efficient method per the reference.

PERFORMANCE STEPS:

1. Determine maintenance requirements.
2. Coordinate facilities maintenance self help programs.
3. Ensure maintenance work is completed.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. MCO P11000.7, Real Property Facilities Management, Vol. III

TASK: 1371.07.06 (CORE PLUS) SUPERVISE ENGINEER OPERATIONS

CONDITION(S): Given a tactical situation, task organized personnel and equipment, and references.

STANDARD(S): To meet mission requirements, without injury to personnel or damage to equipment per the references.

PERFORMANCE STEPS:

1. Review the mission and the reference(s).
2. Brief/Instruct the crew on the mission/assignment.
3. Observe crew performance.
4. Ensure safety precautions are observed.

5. Ensure mission/assignment is completed and meets requirements.

6. Debrief the crew.

7. Inform the engineer officer of project status.

8. Submit required reports.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Appropriate Reference Materials

DUTY AREA 08 - SPECIALIZED DEMOLITIONS IN AN URBAN ENVIRONMENT

TASK: 1371.08.01 (CORE PLUS) COMPUTE THE NET EXPLOSIVE WEIGHT (NEW)

CONDITION(S): Given a target and an explosive charge and references.

STANDARD(S): To determine safe blast and fragmentation distances for an explosive charge.

PERFORMANCE STEPS:

1. Utilizing conversion factors, convert weights of all explosives used into Tri-Nitro-Toluene (TNT) equivalent.

2. Determine the NEW in pounds.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Urban Mobility Engineer's Guidebook

2. NAVSEA OP5 VOL I, Ammunition and Explosives Ashore, Safety Regulations for Handling, Storing, Production, Renovation and Shipping

ADMINISTRATIVE INSTRUCTIONS: Use of a calculator is allowed.

TASK: 1371.08.02 (CORE PLUS) BRIEF THE PRINCIPLES AND THEORY OF EXPLOSIVE DETONATION

CONDITION(S): Provided a mission, an explosive charge, a target, and references.

STANDARD(S): To provide information on the effects of employing an explosive charge.

PERFORMANCE STEPS:

1. Explain the effects of an explosive blast.

2. Explain the types of blast pressure.

3. Explain the types of blast injuries.

4. Explain protective measures taken for a given blast.

5. Calculate the safe-blast and safe-fragmentation distance from a given blast.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Urban Mobility Engineer's Guidebook

2. TM 9-1300-206, Explosive Standards

3. TM 9-1300-214, Military Explosives

ADMINISTRATIVE INSTRUCTIONS: Use of a calculator is allowed in the calculation of over-pressure.

TASK: 1371.08.03 (CORE PLUS) EXPLAIN THE THEORY AND OPERATION OF A SHAPED CHARGE

CONDITION(S): Provided a mission, a shaped charge, a target, and references.

STANDARD(S): To provide information on the effects of employing a shaped charge.

PERFORMANCE STEPS:

1. Explain how the explosively formed penetrator of a shaped charge works.

2. Explain how different casing and liner materials effect shaped charge penetration.

3. Brief the effects of detonating blast pressures on the target structure.

4. Explain the effect of tamping on the explosive detonation.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. TM 9-1300-214, Military Explosives

TASK: 1371.08.04 (CORE PLUS) EMPLOY A SUSPENSION CHARGE

CONDITION(S): Provided a mission, explosives, a target, and references.

STANDARD(S): To destroy 100 percent of the target while limiting the amount of collateral damage per the references.

PERFORMANCE STEPS:

1. Explain the effects of overpressure within a structure.

2. Select the appropriate explosive pressure formula.

3. Calculate the charge(s).

4. Select number and placement of charge(s).

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. TM 9-1300-206, Explosive Standards

2. TM 9-1300-214, Military Explosives

TASK: 1371.08.05 (CORE PLUS) TAKE APPROPRIATE PROTECTIVE MEASURES

CONDITION(S): Given an explosive charge, designated target, any other necessary information or material, and the reference.

STANDARD(S): To ensure personal and unit safety based on target and the explosive charge employed.

PERFORMANCE STEPS:

1. Evaluate the explosive charge.

2. Evaluate the target and surrounding areas.

3. Determine possible effects of detonation on the target and surrounding structures.

4. Determine possible effects on the assault team.

5. Identify safety precautions required during detonation.
   a. Compute Net Explosive Weight (NEW).
   b. Compute safe stand-off distance.

6. Brief team members on explosive effects and safe locations.

7. Position yourself and your team in a safe location during detonation.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. NAVSEA OP5 VOL I, Ammunition and Explosives Ashore, Safety Regulations for Handling, Storing, Production, Renovation and Shipping

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TASK: 1371.08.06 (CORE PLUS) IDENTIFY BUILDING CONSTRUCTION

CONDITION(S): Given a designated region of the world and a targeted structure, without the aid of references.

STANDARD(S): To determine appropriate breaching technique per mission requirement.

PERFORMANCE STEPS:

1. Identify building construction methods.

2. Identify physical structural requirements for multi-level construction.

3. Identify standard construction methods and materials by region of the world.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. NSWC TR 79-224, Characteristics of Urban Terrain

2. NSWC/DL TR 3714, Urban Building Characteristics

TASK: 1371.08.07 (CORE PLUS) EMPLOY A DOUGHNUT CHARGE

CONDITION(S): Given a designated target, explosives, squad demolition kit, and other necessary materials.

STANDARD(S): To penetrate 100% of the target while limiting the amount of collateral damage.

PERFORMANCE STEPS:

1. Select the appropriate material.

2. Select appropriate explosives for the target.

3. Assemble the charge.

4. Prepare a priming system.

5. Compute the Net Explosive Weight (NEW).

6. Emplace and detonate the charge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Urban Mobility Engineer's Guidebook

TRAINING MATERIEL:

1. * Flak Jacket

2. * Kevlar Helmet

3. * Squad Demolitions Kit, SL-3 complete

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
AX14	12 GAGE PRIMERS	2.000 EA	2.000 EA	2.000 EA
M130	CAP, BLASTING, ELEC	1.000 EA	1.000 EA	1.000 EA
M131	CAP, BLASTING, NON-ELEC	1.000 EA	1.000 EA	1.000 EA
	*May be substituted for an electrical priming system.			
M456	DETONATING CORD	5.000 FT	5.000 FT	5.000 FT

M670	FUZE, BLASTING, TIME *Quantity of time fuse will vary depending on range target location and safety bunker.	6.000 FT	6.000 FT	6.000 FT
M766	IGNITOR, TIME, BLASTING, M60 *May be substituted for an electrical priming system.	6.000 EA	6.000 EA	6.000 EA
MM56	NONEL DET, 175ms DLY, 100FT	1.000 EA	1.000 EA	1.000 EA

ADMINISTRATIVE INSTRUCTIONS: The student must observe all explosive safety precautions.

TASK: 1371.08.08 (CORE PLUS) EMPLOY A WINDOW CHARGE

CONDITION(S): Given a designated target, explosives, squad demolition kit, and other necessary materials.

STANDARD(S): To penetrate 100 percent of the target while limiting the amount of collateral damage.

PERFORMANCE STEPS:

1. Select the appropriate material.
2. Select appropriate explosives for the target.
3. Assemble the charge.
4. Prepare a priming system.
5. Compute the Net Explosive Weight (NEW).
6. Emplace and detonate the charge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Urban Mobility Engineer’s Guidebook

TRAINING MATERIEL:

1. * Appropriate medium
2. * Double Sided Tape
3. * Flak Jacket
4. Gas Mask
5. * Goodyear 330 Conveyor Belt Material
6. * Kevlar Helmet

7. * Squad Demolitions Kit, SL-3 complete

8. * Waterproof tape (3/4" and/or 4")

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
AX14	12 GAGE PRIMERS	2.000 EA	2.000 EA	2.000 EA
M130	CAP, BLASTING, ELEC	2.000 EA	2.000 EA	2.000 EA
M131	CAP, BLASTING, NON-ELEC	2.000 EA	2.000 EA	2.000 EA
	*May be substituted for an electrical priming system.			
M456	DETONATING CORD	5.000 FT	5.000 FT	5.000 FT
M670	FUZE, BLASTING, TIME	12.000 FT	12.000 FT	12.000 FT
	Quantity of Time Fuse will vary depending on range target location and safety bunker.			
M766	IGNITOR, TIME, BLASTING, M60	2.000 EA	2.000 EA	2.000 EA
	*May be substituted for an electrical priming system.			
MM56	NONEL DET, 175ms DLY, 100FT	1.000 EA	1.000 EA	1.000 EA

ADMINISTRATIVE INSTRUCTIONS:

1. The student must observe all explosive safety precautions.

TASK: 1371.08.09 (CORE PLUS) EMPLOY A WATER CHARGE

CONDITION(S): Given a designated target, explosives, squad demolition kit, and other necessary materials.

STANDARD(S): To penetrate 100 percent of the target while limiting the amount of collateral damage.

PERFORMANCE STEPS:

1. Select the appropriate material.

2. Select appropriate explosives for the target.

3. Assemble the charge.

4. Prepare a priming system.

5. Compute the Net Explosive Weight (NEW).

6. Emplace and detonate the charge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Guidebook for Assault Entry Techniques, Volume I and II

TRAINING MATERIEL:

1. * 550 Parachute Cord
2. * 8' x 1" x 2" Wood Stock (Target Stakes/Prop Stick)
3. * Breacher's Logbook
4. * Double Sided Tape
5. * E-Silhouette Target (or suitable backing material)
6. * Electrical Tape
7. * Flak Jacket
8. * Gas Mask
9. * IV Bag(s)
10. * Rigger's Tape (3/4" and/or 4")
11. * Squad Demolitions Kit, SL-3 complete

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
AX14	PRIMER, 12 GA	2.000 EA	2.000 EA	2.000 EA
M456	DETONATING CORD	12.000 FT	12.000 FT	12.000 FT
MM56	NONEL DET, 175ms DLY, 100FT	1.000 EA	1.000 EA	1.000 EA

ADMINISTRATIVE INSTRUCTIONS:

1. The student must observe all explosive safety precautions.
2. Actual Class V(W) are required to perform this task.
3. Charge may be improvised using various Class V(W) material.

TASK: 1371.08.10 (CORE PLUS) EMPLOY AN OVAL CHARGE

CONDITION(S): Given a designated target, explosives, squad demolition kit, and other necessary materials.

STANDARD(S): To penetrate 100 percent of the target while limiting the amount of collateral damage.

PERFORMANCE STEPS:

1. Select the appropriate material.
2. Select appropriate explosives for the designated target.

3. Assemble the charge.

4. Prepare a priming system.

5. Compute the Net Explosive Weight (NEW).

6. Emplace and detonate the charge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Urban Mobility Engineer's Guidebook

TRAINING MATERIEL:

1. * 8' x 1" x 2" Wood Stock (Target Stakes/Prop Stick)

2. * E-Silhouette Target (or suitable backing material)

3. * Flak Jacket

4. Gas Mask

5. * Grease

6. * Kevlar Helmet

7. * Squad Demolitions Kit, SL-3 complete

8. * Waterproof tape (3/4" and/or 4")

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
AX14	12 GAGE PRIMERS	2.000 EA	2.000 EA	2.000 EA
M130	CAP, BLASTING, ELEC	2.000 EA	2.000 EA	2.000 EA
M131	CAP, BLASTING, NON-ELEC	2.000 EA	2.000 EA	2.000 EA
	*These items may be substituted for M130.			
M456	DETONATING CORD	96.000 FT	96.000 FT	96.000 FT
	*Amount of Detonating Cord is dependent upon the target.			
M670	FUZE, BLASTING, TIME	12.000 FT	12.000 FT	12.000 FT
	*Quantity of Time Fuse will vary depending on range target location and safety bunker.			
M766	IGNITOR, TIME, BLASTING, M60	2.000 EA	2.000 EA	2.000 EA
	*These items may be substituted for M130.			
MM56	NONEL DET, 175ms DLY, 100FT	1.000 EA	1.000 EA	1.000 EA

ADMINISTRATIVE INSTRUCTIONS:

1. The student must observe all explosive safety precautions.

TASK: 1371.08.11 (CORE PLUS) EMPLOY A CONCRETE CHARGE

CONDITION(S): Given a designated target, explosives, squad demolition kit, and other necessary materials.

STANDARD(S): To penetrate 100 percent of the target while limiting the amount of collateral damage.

PERFORMANCE STEPS:

1. Select the appropriate material.
2. Select appropriate explosives for the target.
3. Assemble the charge.
4. Prepare a priming system.
5. Compute the Net Explosive Weight (NEW).
6. Emplace and detonate the charge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Urban Mobility Engineer's Guidebook

TRAINING MATERIEL:

1. * 8' x 1" x 2" Wood Stock (Target Stakes/Prop Stick)
2. * Double Sided Tape
3. * Flak Jacket
4. Gas Mask
5. * Grease
6. * Kevlar Helmet
7. * Squad Demolitions Kit, SL-3 complete
8. * Waterproof tape (3/4" and/or 4")

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
AX14	12 GAGE PRIMERS	2.000 EA	2.000 EA	2.000 EA
M023	CHG, DEMO, 1 1/4 LB BLOCK C-41	6.000 EA	6.000 EA	6.000 EA
M130	CAP, BLASTING, ELEC	2.000 EA	2.000 EA	2.000 EA
M131	CAP, BLASTING, NON-ELEC	2.000 EA	2.000 EA	2.000 EA

	*These items may be substituted for M130.			
M456	DETONATING CORD	32.000 FT	32.000 FT	32.000 FT
M670	FUZE, BLASTING, TIME *Quantity of Time Fuse will vary depending on range target location and safety bunker.	12.000 FT	12.000 FT	12.000 FT
M766	IGNITOR, TIME, BLASTING, M60 *These items may be substituted for M130.	2.000 EA	2.000 EA	2.000 EA
MM30	CHARGE, FLSC, 20GR, FT	3.000 EA	3.000 EA	3.000 EA
MM56	NONEL DET, 175ms DLY, 100FT	1.000 EA	1.000 EA	1.000 EA

ADMINISTRATIVE INSTRUCTIONS:

1. The student must observe all explosive safety precautions.

TASK: 1371.08.12 (CORE PLUS) EMPLOY A SLIDER CHARGE

CONDITION(S): Given a designated target, explosives, squad demolition kit, and other necessary materials.

STANDARD(S): To penetrate 100 percent of the target while limiting the amount of collateral damage.

PERFORMANCE STEPS:

1. Select the appropriate materials.
2. Select appropriate explosives for the target.
3. Assemble the charge.
4. Prepare a priming system.
5. Compute the Net Explosive Weight (NEW).
6. Emplace and detonate the charge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Urban Mobility Engineer’s Guidebook

TRAINING MATERIEL:

1. Appropriate medium
2. Double Sided Tape
3. * Flak Jacket

4. Gas Mask

5. Kevlar Helmet

6. * Squad Demolitions Kit, SL-3 complete

7. Waterproof tape (3/4" and/or 4")

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
AX14	12 GAGE PRIMERS	2.000 EA	2.000 EA	2.000 EA
M130	CAP, BLASTING, ELEC	2.000 EA	2.000 EA	2.000 EA
M131	CAP, BLASTING, NON-ELEC	2.000 EA	2.000 EA	2.000 EA
	*These items may be substituted for M130.			
M456	DETONATING CORD	18.000 FT	18.000 FT	18.000 FT
M670	FUZE, BLASTING, TIME	12.000 FT	12.000 FT	12.000 FT
	*Quantity of Time Fuse will vary depending on range target location and safety bunker.			
M766	IGNITOR, TIME, BLASTING, M60	2.000 EA	2.000 EA	2.000 EA
	*These items may be substituted for M130.			
MM30	CHARGE, FLSC, 20GR, FT	2.000 EA	2.000 EA	2.000 EA
MM56	NONEL DET, 175ms DLY, 100FT	1.000 EA	1.000 EA	1.000 EA

ADMINISTRATIVE INSTRUCTIONS:

1. The student must observe all explosive safety precautions.

TASK: 1371.08.13 (CORE PLUS) EMPLOY A DETONATING CORD LINEAR CHARGE

CONDITION(S): Given a designated target, explosives, squad demolition kit, and other necessary materials.

STANDARD(S): To penetrate 100 percent of the target while limiting the amount of collateral damage per the references.

PERFORMANCE STEPS:

1. Select the appropriate material.

2. Select appropriate explosives for the target.

3. Assemble the charge.

4. Prepare a priming system.

5. Compute the Net Explosives Weight (NEW).

6. Emplace and detonate the charge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Urban Mobility Engineer's Guidebook

TRAINING MATERIEL:

1. * Double Sided Tape
2. * Flak Jacket
3. Gas Mask
4. * Kevlar Helmet
5. * Squad Demolitions Kit, SL-3 complete
6. * Waterproof tape (3/4" and/or 4")

AMMUNITION:

DODIC	NOMENCLATURE	INITIAL PROFICIENCY	PER ITERATION	ANNUAL SUSTAINMENT
AX14	12 GAGE PRIMERS	2.000 EA	2.000 EA	2.000 EA
M130	CAP, BLASTING, ELEC	2.000 EA	2.000 EA	2.000 EA
M131	CAP, BLASTING, NON-ELEC	2.000 EA	2.000 EA	2.000 EA
	*These items may be substituted for M130.			
M456	DETONATING CORD	33.000 FT	33.000 FT	33.000 FT
M670	FUZE, BLASTING, TIME	12.000 FT	12.000 FT	12.000 FT
	*Quantity of Time Fuse will vary depending on range target location and safety bunker.			
M766	IGNITOR, TIME, BLASTING, M60	2.000 EA	2.000 EA	2.000 EA
	*These items may be substituted for M130.			
MM56	NONEL DET, 175ms DLY, 100FT	1.000 EA	1.000 EA	1.000 EA

ADMINISTRATIVE INSTRUCTIONS:

1. The student must observe all explosive safety precautions.

TASK: 1371.08.14 (CORE PLUS) EMPLOY A FIELD EXPEDIENT MILITARY OPERATIONS ON URBAN TERRAIN (MOUT) BUILDING BREACHING CHARGE

CONDITION(S): Given a designated target, explosives, squad demolition kit, and other necessary materials.

STANDARD(S): To penetrate 100 percent of the target while limiting the amount of collateral damage.

PERFORMANCE STEPS:

1. Select appropriate explosives for the designated target.
2. Prepare a priming system.
3. Emplace and detonate the charge.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. FM 90-10, Military Operations on Urban Terrain
2. MCWP 3-35.3, Military Operations on Urbanized Terrain (MOUT)

TRAINING MATERIEL:

1. * Breacher's Logbook
2. * Double Sided Tape
3. * Flak Jacket
4. * Gas Mask
5. * Goodyear 330 Conveyor Belt Material
6. * Rigger's Tape (3/4" and/or 4")
7. * Spray Adhesive
8. * Squad Demolitions Kit, SL-3 complete

ADMINISTRATIVE INSTRUCTIONS:

1. The student must observe all explosive safety precautions.
2. Inert explosive items may be substituted for live explosives.

MOS 1390, BULK FUEL OFFICER

DUTY AREA 01 - PROGRAMS, PROJECTS, AND OPERATIONS

TASK: 1390.01.01 (CORE PLUS) DEVELOP BULK FUEL SITE REAR AREA SECURITY PLAN

CONDITION(S): Provided a tactical operation, subordinate personnel, and references.

STANDARD(S): To safeguard system components, and to list personnel assignments, movement of troops, location of equipment and fuel, and tactical responses to possible threats per the references.

PERFORMANCE STEPS:

1. Coordinate with adjacent units.

2. Establish a bulk fuel site rear area security plan.

3. Assign personnel to security operations.

4. Alert combat convoy commanders to assist with hose line surveillance.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. ARTEP 10-417-30-MTP, Mission Training Plan for Petroleum Pipeline and Terminal Company

2. FM 90-14, Rear Battle

3. FMFM 13, MAGTF Engineer Operations

4. FMFM 6-4, Marine Rifle Company/Platoon

5. FMFM 6-5, Marine Rifle Squad

6. FMFM 7-1, Fire Support Coordination

7. FMFM 7-2, Naval Gunfire Support

8. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1390.01.02 (CORE PLUS) MANAGE BULK FUEL SITE CONSTRUCTION/INSTALLATION

CONDITION(S): Provided a fuel distribution plan with a system layout, necessary equipment, engineer personnel, and the references.

STANDARD(S): To meet the fuel and equipment needs of all using units, with all fittings properly connected and components properly placed per the fuel distribution plan, applicable safety standards, and the references.

PERFORMANCE STEPS:

1. Coordinate tactical fuel preparation requirements (site clearing, road improvements/construction, and earthen berm construction for fabric fuel tanks) with unit engineer.

2. Supervise Bulk Fuel Company, or MWSS Fuels Branch, deployment and installation of Tactical Fuel System in a prepared site.

3. Monitor adherence to developed schedule.

4. Provide guidance and assistance to engineer personnel during tactical bulk fuel site preparation.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual

2. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1390.01.03 (CORE PLUS) PLAN BULK FUEL SYSTEM EMPLACEMENT

CONDITION(S): Provided an operations order, the location of the operation, written fuel requirements of the operation, a communications plan, and references.

STANDARD(S): To meet the requirements of the operations order per the references.

PERFORMANCE STEPS:

1. Review the operations order.

2. Review the fuel requirements.

3. Review applicable publications.

4. Conduct a site reconnaissance.

5. Conduct a terrain analysis.

6. Determine fuel system site location.

7. Develop a system emplacement plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. FM 10-69, Petroleum Supply Point Equipment and Operations

2. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual

3. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1390.01.04 (CORE PLUS) PREPARE OIL SPILL CONTINGENCY AND FIRE PREVENTION PLAN

CONDITION(S): Provided local environmental regulations, unit/base SOP, and the references.

STANDARD(S): To address all applicable contingencies per the references.

PERFORMANCE STEPS:

1. Review local environmental and fire prevention regulations.

2. Review unit/base SOP.

3. Develop oil spill contingency and fire prevention plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. AR 200-1, Environmental Protection and Enhancement

2. NAVFAC P-908, Oil Spill Control for Inland Waters and Harbors

3. TC 5-400 W/CH #01, Unit Leader's Handbook For Environmental Stewardship

4. TSP 051-E-0002, Comply with the Host Nation Federal, State & Local, Environmental Law and Regulations

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TASK: 1390.01.05 (CORE PLUS) MANAGE FUEL EQUIPMENT AND FUEL

CONDITION(S): Provided an actual bulk fuel operation, operations orders, a fuel distribution plan, and references.

STANDARD(S): To meet daily fuel requirements per the fuel distribution plan, pumping orders, operations orders, and the references.

PERFORMANCE STEPS:

1. Monitor fuel distribution plan.

2. Issue pumping orders.

3. Monitor fuel operations.

4. Requisition fuel as needed through higher headquarters.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. DOD 4140.25-M, DOD Management of Bulk Petroleum

2. FM 10-69, Petroleum Supply Point Equipment and Operations

3. FMFM 3-1, Command and Staff Action

4. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.01.06 (CORE PLUS) ANALYZE OPERATIONS ORDER

CONDITION(S): Provided an operations order with all annexes, appendices, and references.

STANDARD(S): To determine bulk fuel/engineer tasks and requirements per the references.

PERFORMANCE STEPS:

1. Examine the appendices of the annexes.

2. Identify those appendices related to bulk fuel operations.

3. Examine pertinent appendices in detail.

4. List all bulk fuel support requirements.

5. Prepare a list of items which will impact on engineer operations in general and bulk fuel in specific.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. FM 5-100, Engineer Combat Operations

2. FM 5-103, Survivability

3. FM 90-1, Countermobility

4. FM 90-13-1, Combined Arms Breaching Operations

5. FMFM 13, MAGTF Engineer Operations

6. FMFM 3-1, Command and Staff Action

7. FMFM 4-1, Combat Service Support Operations

8. FMFM 6-1, Marine Division

9. MCWP 4-11.6, Bulk Liquid Operations

10. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1390.01.07 (CORE PLUS) ANALYZE MAINTENANCE MANAGEMENT REPORTS

CONDITION(S): Provided maintenance management reports and appropriate references.

STANDARD(S): To identify elements with a negative impact on bulk fuel operations per the references.

PERFORMANCE STEPS:

1. Examine maintenance management reports.

2. List problem areas and trends identified as having a negative effect on bulk fuel operations.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1390.01.08 (CORE PLUS) CONDUCT SAFETY INSPECTIONS

CONDITION(S): Provided a job site with working personnel to inspect and references.

STANDARD(S): To identify discrepancies in safety procedures, and to order their immediate correction per the references.

PERFORMANCE STEPS:

1. Observe job site personnel and activities.

2. List any discrepancies in safety procedures which require attention.

3. Issue corrective orders.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. FM 10-67, Petroleum Supply in Theater of Operation

2. MCO P5100.8, Marine Corps Ground Occupational Safety and Health (OSH) Program Manual

3. NAVMC 2692, Safety Program Management Manual

4. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1390.01.09 (CORE) MANAGE EMPLOYMENT OF FUEL DISTRIBUTION SYSTEMS

CONDITION(S): Provided an operations order, a fuel distribution system plan, equipment, materials, personnel list, and references.

STANDARD(S): To support the fuel requirements specified in the operations order per the references.

PERFORMANCE STEPS:

1. Compare the fuel distribution system requirements indicated in the operations order to those specified in the fuel distribution system plan.

2. Identify discrepancies.

3. Issue orders to correct deficiencies.

4. Issue orders to implement the Fuel Distribution System Plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. FM 10-67, Petroleum Supply in Theater of Operation

2. FMFM 3-1, Command and Staff Action

3. MCWP 4-11.6, Bulk Liquid Operations

4. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1390.01.10 (CORE PLUS) IMPLEMENT ENGINEER MAINTENANCE MANAGEMENT PROGRAM

CONDITION(S): Provided an engineer maintenance activity, engineer maintenance management directives, and references.

STANDARD(S): To distribute all engineer maintenance management directives to the activity, and to follow maintenance management SOPs per the references.

PERFORMANCE STEPS:

1. Distribute maintenance management directives.

2. Issue orders to implement Maintenance Management Standing Operating Procedures (MMSOPs).

3. Visually inspect maintenance activities.

4. Issue corrective orders for noncompliance with maintenance management procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. FMFM 3-1, Command and Staff Action

2. MCO P4790.2, MIMMS Field Procedures Manual

3. TM 4700-15/1, Equipment Recording Procedures

4. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1390.01.11 (CORE) ASSIST IN PREPARING PRELIMINARY ENVIRONMENTAL ASSESSMENTS

CONDITION(S): Provided operations orders, local codes/regulations pertaining to the area of impact (if applicable), a planned fuel storage and distribution operation, SOPs, local base orders, and the reference.

STANDARD(S): To meet requirements of base orders and applicable regulations per the reference.

PERFORMANCE STEPS:

1. Study the operations orders.

2. Study the local codes/regulations (if applicable).

3. Review the fuel storage and distribution operation plan.

4. Conduct a site review.

5. Write the bulk fuel portion of a preliminary environmental assessment.

6. Submit bulk fuel portion of preliminary environmental assessment to appropriate higher headquarters.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. NAVFAC P-908, Oil Spill Control for Inland Waters and Harbors

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TASK: 1390.01.12 (CORE PLUS) SUPERVISE FUEL SYSTEM COMMUNICATIONS PLAN

CONDITION(S): Provided a fuel distribution system schematic, operations orders, and references.

STANDARD(S): To ensure fuel system communications are established and maintained to meet mission requirements per the references.

PERFORMANCE STEPS:

1. Determine communications requirements.
2. Request communications equipment/support as required.
3. Prepare personnel and equipment assignments.
4. Request frequencies as required.
5. Coordinate communications with higher headquarters.
6. Monitor compliance with communications procedures and SOPs.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. FMFM 13, MAGTF Engineer Operations
2. FMFM 3-1, Command and Staff Action

TASK: 1390.01.13 (CORE) MANAGE PETROLEUM QUALITY SURVEILLANCE AND CONTROL PROGRAM

CONDITION(S): Provided test equipment, personnel, access to a laboratory, and references.

STANDARD(S): To conform to API listed standards for quality control per the references.

PERFORMANCE STEPS:

1. Prepare a quality surveillance and control SOP.
2. Check for compliance with the SOP.
3. Inspect for adherence to quality control procedures.
4. Identify and list all discrepancies.
5. Issue corrective orders.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

2. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual

3. NAVAIRINST 10340.2B, Fuel Quality for Aviation

4. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1390.01.14 (CORE) WRITE BULK FUEL PORTION OF OPERATIONS ORDER

CONDITION(S): Provided an operations plan containing the concept of employment of higher, adjacent, and supported units and references.

STANDARD(S): To support the operations plan per Joint Operational Planning and Evacuation Systems (JOPES) and the references.

PERFORMANCE STEPS:

1. Study the concept of employment in the operations plan of supported unit.

2. Review local SOPs.

3. Review FMFM 3-1.

4. Write the bulk fuel portion of the operations orders for a planned operation.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. FMFM 3-1, Command and Staff Action

2. MCRP 3-17B, Engineer Forms and Reports

3. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.01.15 (CORE PLUS) ADVISE SUPERIORS ON FUEL OPERATIONS

CONDITION(S): Provided information on fuel operations, operations plans, and the references.

STANDARD(S): To provide timely and complete information on technical and tactical aspects of bulk fuel operations per the references.

PERFORMANCE STEPS:

1. Review information provided on fuel operations.

2. Review operations plans.

3. Review FMFM 3-1, daily dump status, and 3-day forecast.

4. Prepare and submit the Petroleum Oils and Lubricants Capabilities Report (POLCAP) and Daily Bulk Petroleum Contingency Report (REPOL) to higher headquarters via chain of command in accordance with DOD and theater guidance. The POLCAP and REPOL reports should contain the the following:

   a. Capabilities, facility damage, and ongoing corrective action.

   b. Storage capacity, on-hand stock, issues, receipts, and resupply requirements.

   c. Constraints and readiness status.

5. Provide technical expertise on current operations.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. CJCSM 3150.14, Joint Reporting Structure (JRS) Logistics

2. FMFM 3-1, Command and Staff Action

3. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.01.16 (CORE PLUS) DETERMINE OTHER SERVICES' FUEL REQUIREMENTS

CONDITION(S): Provided an operations order and references.

STANDARD(S): To provide data for completion of the petroleum distribution plan per the references.

PERFORMANCE STEPS:

1. Review operations order.

2. Review applicable FM and FMFM publications.

3. List other services' fuel requirements:

   a. quantity of types of fuel

   b. estimates of day of supply by type

   c. location of required fuel delivery sites

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. FM 101-10-1/2, Staff Officer's Field Manual Organizational Technical Data Planning Factors

2. FMFM 13, MAGTF Engineer Operations

3. FMFM 3-1, Command and Staff Action

4. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.01.17 (CORE) MANAGE INVENTORY PROCEDURES FOR PETROLEUM PRODUCTS

CONDITION(S): Provided the requirement to develop inventory procedures and references.

STANDARD(S): To ensure effective management, control, security, and accounting procedures per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Develop physical inventory procedures.

3. Develop property book accounting procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. DOD 4140.25, Management of Bulk Petroleum Products, Storage and Distribution Facilities

2. MCO 4400.170, Control and Accountability of Petroleum and Related Products/Coals

3. MCWP 4-11.6, Bulk Liquid Operations

4. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

5. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual

6. NAVAIR 06-5-502, Aircraft Refueling and Shore Based Activities

7. NAVSUP 1, Navy Supply Systems Command Manual, Volume II

8. OPNAVINST 4020.25, Controlling and Accounting for Ground Fuels

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TASK: 1390.01.18 (CORE) REVIEW QUALITY DEFICIENCY REPORT (QDR) (SF 368)

CONDITION(S): Provided a completed SF 368 and the reference.

STANDARD(S): To list and submit for correction all inaccuracies per the reference.

PERFORMANCE STEPS:

1. Review appropriate section of the reference.
2. Review the QDR for accuracy.
3. Compile a list of discrepancies.
4. Submit the list of discrepancies for correction.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: WO

REFERENCE(S):

1. TM 4700-15/1, Equipment Recording Procedures

TASK: 1390.01.19 (CORE) MANAGE EQUIPMENT SCHEDULED PREVENTIVE MAINTENANCE

CONDITION(S): Provided ERO from owning unit, engineer equipment, applicable tools, equipment records, and references.

STANDARD(S): To ensure equipment will be serviced on schedule and defects discovered and corrected before serious damage or failure occurs per the references.

PERFORMANCE STEPS:

1. Review ERO.
2. Review proper sections of the references.
3. Perform applicable preventive maintenance services.
4. Evacuate equipment to higher echelon if required.
5. Initiate EROSL if required.
6. Document maintenance actions as required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Equipment Technical Publications
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TM 4700-15/1, Equipment Recording Procedures
4. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1390.01.20 (CORE) MANAGE BULK FUEL EQUIPMENT PREVENTIVE MAINTENANCE PROGRAM

CONDITION(S): Provided bulk fuel equipment to maintain, maintenance SOP, organizational maintenance facilities, trained maintenance personnel, applicable TMs for the equipment, and other references.

STANDARD(S): To perform timely maintenance on all bulk fuel equipment, and to maintain combat readiness at the highest level possible per the references.

PERFORMANCE STEPS:

1. Review applicable maintenance publications.

2. Issue orders to maintenance personnel supervisors.

3. Identify discrepancies in maintenance operations and cycle.

4. Issue orders to correct discrepancies.

5. Ensure MIMMS procedures are followed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. MCO 4400.170, Control and Accountability of Petroleum and Related Products/Coals

2. MCO P4790.2, MIMMS Field Procedures Manual

3. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual

4. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

5. TM 4700-15/1, Equipment Recording Procedures

TASK: 1390.01.21 (CORE) MONITOR EXECUTION OF FUEL DISTRIBUTION PLAN

CONDITION(S): Provided a bulk fuel operation, operations orders, a fuel distribution plan, and references.

STANDARD(S): To ensure all using units receive fuel in the prescribed quantity and type, within the time frame set by higher headquarters, per operations orders and references.

PERFORMANCE STEPS:

1. Regularly inspect fuel distribution operations.

2. Contact using units for input on set up of equipment and plan of movement changes.

3. Identify discrepancies.

4. Issue orders for corrective action when needed.

5. Provide guidance and assistance.

6. Monitor progress of operation.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. ARTEP 10-417-30-MTP, Mission Training Plan for Petroleum Pipeline and Terminal Company

2. FM 10-69, Petroleum Supply Point Equipment and Operations

3. FMFM 3-1, Command and Staff Action

4. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.01.22 (CORE) PREPARE FIRE PREVENTION PLANS

CONDITION(S): Provided operations orders, a completed bulk fuel systems layout, fire fighting equipment, and references.

STANDARD(S): To detail the location of fire fighting equipment, preventive steps to be taken by personnel, areas of responsibility, and intervals for fire safety inspection per the references.

PERFORMANCE STEPS:

1. Analyze a potential fire threat.

2. Identify the location of all fire fighting equipment.

3. Identify personnel to support fire fighting effort.

4. Schedule inspections of fire fighting equipment and facilities.

5. List external support available (crash crew).

6. Develop fire prevention plans.

7. Plan and schedule fire drills.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. TM 07661B-14/1, Extinguisher, Fire, Dry Chemical and Aqueous Film Forming Foam, Self-Contained, Model D-4

2. TM 07661C-14/1, Extinguisher, Fire, Dry Chemical and Aqueous Film Forming Foam, Self-Contained, Model D-4

3. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1390.01.23 (CORE PLUS) MONITOR CORROSION AND DETERIORATION CONTROL

CONDITION(S): Given material which is stored or used under conditions subject to corrosion or deterioration; paints, solutions, cleaning materials, and coverings; and the reference.

STANDARD(S): To prevent loss or damage during storage or use per the reference.

PERFORMANCE STEPS:

1. Review the reference.

2. Establish inspection schedule.

3. Issue orders for corrective actions as required.

4. Establish procedures for corrosion and deterioration prevention.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. TM 3080-50, Corrosion Control Procedures for Depot Maintenance Activities

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TASK: 1390.01.24 (CORE) MANAGE TACTICAL FUEL SYSTEM (TFS) ELASTOMERIC SHELF/USE LIFE PROGRAM

CONDITION(S): Given a TFS which is stored at owning unit facility or TFS that is in use with elastomeric components (fabric tanks and hoses) exposed to environmental conditions and references.

STANDARD(S): To determine required storage, packaging and preservation conditions, quantities for testing, proper identification shelf/use life status, and proper disposal procedures per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Determine whether on hand TFS elastomeric components (fabric tanks and hoses) are in a shelf-life or use-life status.

3. Conduct required inspections on TFS elastomeric components in a shelf-life status to ensure items meet storage and preservation requirements and are properly marked.

4. Develop and maintain TFS elastomeric shelf/use life records.

5. Prepare and submit required shelf-life reports.

6. Determine the required test and quantity of a given batch of TFS elastomeric components in order to extend shelf-life.

7. Determine required frequency of inspection of elastomeric shelf/use life components.

8. Identify and properly dispose of expired elastomeric components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. ASTM D 380, Standard Test Method for Rubber Hose

2. DLAR 140.55, Reporting of Item and Packaging Discrepancies

3. DOD 4140.27-M, Shelf-Life Item Management Manual

4. MCO 4030.33, Packaging of Material

5. MCO 4140.5, USMC Shelf Life Program

6. MCO 4450.13, Joint Reg for Safeguarding Sensitive Inventory Items, Controlled Substances and Pilferable Items of Supply

7. MIL-STD 2073-1C, Standard Practice for Military Packing

8. MIL-STD-105, Sampling Procedures and Tables for Inspection by Attributes

9. MIL-STD-109, Inspection Terms and Definitions

10. MIL-STD-129, Military Standard Marking for Shipment and Storage

11. MIL-STD-2073-2B, Packaging Requirement Code

12. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

13. TM 4700-15/1, Equipment Recording Procedures

DUTY AREA 02 - STAFF FUNCTIONS

TASK: 1390.02.01 (CORE PLUS) PERFORM STAFF PLANNING OF BULK FUEL SUPPORT IN TACTICAL AND LOGISTICAL OPERATIONS

CONDITION(S): Provided an operations order with all annexes and appendices, an equipment availability list, and references.

STANDARD(S): To develop bulk fuel concepts, the bulk fuel appendix to the operations order, and fuel requirements; and to determine prepositional war reserve materiel requirements.

PERFORMANCE STEPS:

1. Determine fuel requirements.
2. Determine fuel equipment available.
3. Identify bulk fuel support requirements.
4. Determine fuel source.
5. Coordinate with subordinate commands to provide support.
6. Identify support required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: CWO2

REFERENCE(S):

1. Appendix 1 to Annex D of Operations Order
2. FMFM 3-1, Command and Staff Action
3. JOINT PUB 4-03, Joint Bulk Petroleum Doctrine
4. JOINT PUB 5-021, JOPS
5. MCWP 4-11.6, Bulk Liquid Operations

ADMINISTRATIVE INSTRUCTIONS: Fuel equipment requirements will be determined and sourced from appropriate organization. Fuel supply requirements will be registered and sourced from the appropriate CINC Joint Petroleum Office, defense fuel supply point, or military organization.

TASK: 1390.02.02 (CORE PLUS) ANALYZE BULK FUEL FACTORS AFFECTING OPERATIONS AND EXERCISES

CONDITION(S): Provided an operations order, bulk fuel concept of operations, equipment list, and references.

STANDARD(S): To determine effectiveness of the concept per the references.

PERFORMANCE STEPS:

1. Determine fuel requirements from operations plan.
2. Determine fuel storage capability.
3. Determine fuel transport capability.
4. Determine fuel distribution capability.
5. Determine if fuel capabilities will support requirements.
6. Provide any recommended changes to the bulk fuel concept.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: CWO2

REFERENCE(S):

1. FM 10-67, Petroleum Supply in Theater of Operation
2. FMFM 13, MAGTF Engineer Operations
3. JOINT PUB 4-03, Joint Bulk Petroleum Doctrine
4. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.02.03 (CORE PLUS) DETERMINE/REGISTER BULK FUEL REQUIREMENTS WITH THE APPROPRIATE AGENCY

CONDITION(S): Provided an operations/exercise order, concept of operations, force movement, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Determine fuel requirements from the operations order.
2. Determine the source of fuel.
3. Submit fuel requirements in the appropriate format with the agency.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: CWO2

REFERENCE(S):

1. DOD 4140.25, Management of Bulk Petroleum Products, Storage and Distribution Facilities
2. FM 10-67, Petroleum Supply in Theater of Operation
3. JOINT PUB 4-03, Joint Bulk Petroleum Doctrine

4. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.02.04 (CORE PLUS) DETERMINE/REGISTER BULK FUEL PREPOSITIONED WAR RESERVE MATERIEL REQUIREMENT (PWRMR) WITH APPROPRIATE COMMANDER IN CHIEF (CINC)

CONDITION(S): Provided an operation plan with time phased force deployment data and references.

STANDARD(S): To meet mission requirements per the references.

PERFORMANCE STEPS:

1. Pull fuel requirements from the operations plan and the Time Phase Force Deployment Data (TPFDD).

2. Determine appropriate CINC Joint Petroleum Office (JPO).

3. Prepare DD Form 1887, Prepositioned War Reserve Materiel Requirement (PWRMR).

4. Submit the PWRMR to the appropriate CINC JPO.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: CWO2

REFERENCE(S):

1. DOD 4140.25, Management of Bulk Petroleum Products, Storage and Distribution Facilities

2. JOINT PUB 4-03, Joint Bulk Petroleum Doctrine

3. MCWP 4-11.6, Bulk Liquid Operations

DUTY AREA 03 - NON-EQUIPMENT OPERATIONAL PROCEDURES

TASK: 1390.03.01 (CORE) PREPARE FUEL DISTRIBUTION PLAN

CONDITION(S): Provided an operations plan and references.

STANDARD(S): To provide supporting fuel distribution information for the operations plan per the references.

PERFORMANCE STEPS:

1. Review the operations plan.

2. Determine types, quantities, and locations of communication system components.

3. Prepare schedule and diagram for movement of fuel through the system.

4. Provide a diagram of security/surveillance plan.

5. Provide for tactical retail bulk fuel issue points in support of tactical vehicles and mobile refueling assets.

6. Provide location of fire prevention equipment.

7. Provide location of receiving/dispensing points, to include nearby railways, waterways, and roads.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. FM 10-67, Petroleum Supply in Theater of Operation

2. FMFM 13, MAGTF Engineer Operations

3. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.03.02 (CORE PLUS) RECOMMEND COVER, CONCEALMENT, AND CAMOUFLAGE ALTERNATIVES

CONDITION(S): Provided an operations order; a request for a recommendation of cover, concealment, and camouflage for troops, vehicles, weapons, or field installations; reconnaissance reports; and references.

STANDARD(S): To specify techniques for hiding, blending, and disguising troops, vehicles, weapons, or installations per the references.

PERFORMANCE STEPS:

1. Study the operations order.

2. Study the reconnaissance report.

3. List alternatives for cover, concealment, and camouflage and the advantages/disadvantages of each choice.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. FM 5-103, Survivability

2. FM 5-20, Camouflage

TASK: 1390.03.03 (CORE PLUS) ENFORCE ENVIRONMENTAL CONTROL AND FIRE REGULATIONS

CONDITION(S): Provided a Marine Corps installation; local SOPs; federal, state, and local environmental control regulations; and references.

STANDARD(S): To ensure all installation activities and inspections are conducted in compliance with environmental control regulations per the references.

PERFORMANCE STEPS:

1. Review federal, state, and local environmental/natural resource guidance.

2. Promulgate environmental and natural resource responsibilities and regulations.

3. Inspect installation activities for compliance with regulations.

4. Issue orders to correct noncompliance with regulations.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. AR 200-1, Environmental Protection and Enhancement

2. OPNAV 5090.1, Environmental and Natural Resources Protection Plan

3. TC 5-400 W/CH #01, Unit Leader’s Handbook For Environmental Stewardship

4. TSP 051-E-0002, Comply with the Host Nation Federal, State & Local, Environmental Law and Regulations

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TASK: 1390.03.04 (CORE PLUS) MANAGE PROCEDURES REQUIRED TO CHANGE PRODUCT TYPES

CONDITION(S): Provided a system/tank/drum that requires a change of product, a new fuel source, and references.

STANDARD(S): To ensure the fuel system/tank/drum is purged to meet requirements per the references.

PERFORMANCE STEPS:

1. Establish local standing operating procedures (SOP).

2. Order change of fuel products per the SOP.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. FM 10-67, Petroleum Supply in Theater of Operation

2. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

3. TM 9130-12, Fuel Handling Procedures (Liquid Fuel)

TASK: 1390.03.05 (CORE PLUS) MONITOR PUMP SCHEDULED PREVENTIVE MAINTENANCE

CONDITION(S): Provided preventive maintenance roster and references.

STANDARD(S): To meet requirements of the schedule and the references.

PERFORMANCE STEPS:

1. Review preventive maintenance roster.

2. Review the reference.

3. Review pump scheduled preventive maintenance.

4. Review the maintenance performed.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. Associated Equipment Technical Manuals

2. MCO P4790.2, MIMMS Field Procedures Manual

TASK: 1390.03.06 (CORE) MANAGE PREPARATION OF TACTICAL FUEL EQUIPMENT FOR STORAGE/EMBARKATION

CONDITION(S): Provided tactical fuel equipment, applicable tools, storage/embarkation order, storage/embarkation supplies, and references.

STANDARD(S): To meet storage/embarkation requirements per the references.

PERFORMANCE STEPS:

1. Review references.

2. Review storage/embarkation order.

3. Manage preparation for storage/embarkation.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Associated Equipment Technical Manuals

2. MCO P4030.19, Packaging and Material Handling of Hazardous Material for Military Air Shipment

3. TM 4700-15/1, Equipment Recording Procedures

TASK: 1390.03.07 (CORE) MANAGE THE DAILY INVENTORY/ACCOUNTABILITY OF BULK PETROLEUM PRODUCTS

CONDITION(S): Provided local SOPs, access to established fuel pumping site, operations orders, gauging tape, gauging sticks, and references.

STANDARD(S): To fall within allowances in local SOPs and to ensure product losses do not exceed allowable limits per the references.

PERFORMANCE STEPS:

1. Sign for initial receipt of fuel.

2. Establish opening inventory.

3. Measure fuel by metering or estimates.

4. Tally receipts.

5. Subtract issues and losses.

6. Write both physical and book inventories.

7. Perform volume corrections per API Table 5 and 6B, and reference 3 when applicable.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. ASTM D-1250, Petroleum Measurement Table, Volume Correction Factors

2. MCO 4400.170, Control and Accountability of Petroleum and Related Products/Coals

3. MCWP 4-11.6, Bulk Liquid Operations

4. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual

5. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1390.03.08 (CORE) MANAGE MONTHLY BULK PETROLEUM INVENTORY

CONDITION(S): Provided previous month's bulk petroleum inventory, issue and receipt records for the current month, and references.

STANDARD(S): To adhere to the accountability program per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Review previous month's physical inventory and fuel on hand.

3. Calculate all fuel issued and all fuel received in the current month.

4. Balance the amount of fuel used and the amount of fuel received with the amount of fuel on hand at the beginning of the month and at the end of the month.

5. Submit the completed physical inventory to the fuel officer.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. DOD 4140.25, Management of Bulk Petroleum Products, Storage and Distribution Facilities

2. MCO 4400.170, Control and Accountability of Petroleum and Related Products/Coals

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TASK: 1390.03.09 (CORE) ADMINISTER FIRST AID FOR FUEL INGESTION/CONTACT WITH SKIN/EYES

CONDITION(S): Provided with a situation requiring first aid for fuel ingestion/contact with skin/eyes and the reference.

STANDARD(S): To immediately reduce or eliminate the risk of personal injury per the reference.

PERFORMANCE STEPS:

1. Flush eyes and/or mouth repeatedly and thoroughly with water.

2. Contact medical assistance as soon as possible.

3. Remove fuel saturated clothing and wash skin area exposed with soap and water.

4. Replace clothing with clean items.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: WO

REFERENCE(S):

1. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 390.03.10 (CORE) DETERMINE DAY OF SUPPLY BY TYPE OF FUEL

CONDITION(S): Provided operations orders, using unit T/E, using unit estimates, and the references.

STANDARD(S): To reflect using unit fuel needs by type of vehicles/aircraft per the references.

PERFORMANCE STEPS:

1. Review the references.

2. List number and kind of equipment to be supported from the T/E.

3. State if the day of supply is based on estimate or use.

4. List equipment storage capability.

5. Write an estimate of day of supply by type of fuel.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Aviation Support Logistics (ASL) Aircraft Fuel Consumption Spreadsheets

2. Logistic Management Information System (LMIS) Fuel Database

3. FM 10-67, Petroleum Supply in Theater of Operation

4. FM 101-10-1/2, Staff Officer’s Field Manual Organizational Technical Data Planning Factors

5. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.03.11 (CORE PLUS) DETERMINE SOURCE OF SUPPLY

CONDITION(S): Provided an operations plan, local SOPs, and references.

STANDARD(S): To identify supplier by name and type (military or commercial), routes of supply (truck, pipeline, rail, etc.), packaging, and means of request per the references.

PERFORMANCE STEPS:

1. Determine and list source of supply.

2. Document whether the source of supply is military or commercial.

3. Determine the route by which fuel is to be received.

4. Determine how the supply will be packaged.

5. Determine proper procedures and chain of command for requesting the supply.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. DOD 4140.25, Management of Bulk Petroleum Products, Storage and Distribution Facilities

2. MCO 4400.170, Control and Accountability of Petroleum and Related Products/Coals

3. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1390.03.12 (CORE) PROVIDE FUEL CONSUMPTION ESTIMATES TO HIGHER HEADQUARTERS

CONDITION(S): Provided a request for fuel consumption estimates, an operations order, and reference.

STANDARD(S): To list fuel supportability requirements from using units per the references.

PERFORMANCE STEPS:

1. List fuel supportability requirements for using units.

2. Write a fuel consumption estimate.

3. Submit fuel consumption estimate to higher headquarters.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. FMFM 3-1, Command and Staff Action

2. MCWP 4-11.6, Bulk Liquid Operations

DUTY AREA 04 - TRAINING PROGRAMS

TASK: 1390.04.01 (CORE PLUS) MANAGE MOS TRAINING PROGRAM

CONDITION(S): Provided unit T/O, unit T/E, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review MCO 1500.40.
2. Review T/O.
3. Review T/E.
4. Review pertinent Individual Training Standards (ITSs).
5. Review appropriate section in MCCRES, Volume XI.
6. Review MCO P4790.2.
7. Review personnel training records.
8. Analyze mission requirements.
9. Review documented bulk fuel MOS training requirements.
10. Develop training program policies and procedures.
11. Plan a bulk fuel equipment operator and maintenance training program.
12. Promulgate training program policies and procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: WO

REFERENCE(S):

1. Unit MMSOP
2. MCO 3501.12, MCCRES, Volume XI
3. MCO P4790.2, MIMMS Field Procedures Manual
4. MCWP 4-11.6, Bulk Liquid Operations
5. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products
6. NATOPS, Aircraft Refueling
7. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual

8. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

9. TM 9130-12, Fuel Handling Procedures (Liquid Fuel)

DUTY AREA 05 - MIMMS

TASK: 1390.05.01 (CORE PLUS) MANAGE MAINTENANCE ADMINISTRATION

CONDITION(S): Provided with maintenance resources, appropriate maintenance directives, and the reference.

STANDARD(S): To support mission requirements per the reference.

PERFORMANCE STEPS:

1. Provide input to the unit Maintenance Management Standard Operating Procedures (MMSOP).

2. Conduct internal inspections program.

3. Plan, organize, and coordinate the use of maintenance resources.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

DISTANCE LEARNING PRODUCT(S):

1. MCI 0410, MIMMS (AIS)

2. MCI 0414, Ground Maintenance Procedures for Supervisors

TASK: 1390.05.02 (CORE PLUS) MANAGE RECORDS AND FORMS

CONDITION(S): Provided engineer equipment, appropriate records and forms, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Identify engineer equipment records requirements.

2. Identify maintenance records requirements.

3. Identify calibration control requirements.

4. Manage engineer equipment records.

5. Manage maintenance records.

6. Manage calibration control records.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Stock Lists
2. MCO 5210.11, The Marine Corps Records Management Program
3. MCO 5213.7, The Marine Corps Forms Management Program
4. MCO P4790.2, MIMMS Field Procedures Manual
5. SECNAVINST 5212.5B/C, Navy and Marine Corps Records Disposition Manual
6. TM 4700-15/1, Equipment Recording Procedures
7. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1390.05.03 (CORE PLUS) MANAGE PERSONNEL RESOURCES

CONDITION(S): Provided with unit T/O, unit T/E, list of available personnel, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review T/O.
2. Review HQMC established personnel manning levels.
3. Review T/E.
4. Review unit SOP.
5. Determine requirements.
6. Make personnel assignments.
7. Report personnel deficiencies to the commander.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. HQMC Established Personnel Manning Level
2. Local SOP

TASK: 1390.05.04 (CORE PLUS) MANAGE PUBLICATIONS RESOURCES

CONDITION(S): Provided Marine Corps orders, technical publications, equipment-related publications, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Identify requirements based on mission and unit T/E.
2. Evaluate publications on hand.
3. Evaluate control procedures.
4. Determine Recommended Changes to Technical Publications (NAVMC 10772) procedures.
5. Determine deficiencies.
6. Determine modification requirements for on hand equipment.
7. Take corrective actions required.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Modification Instructions
2. Appropriate Stock Lists
3. Publication Library Management System (PLMS)
4. Unit T/E
5. Unit T/O
6. MCO P4790.2, MIMMS Field Procedures Manual
7. MCO P5215.17, The USMC Tech Pub System
8. MCO P5600.31, Marine Corps Publication and Printing
9. NAVMC 2761, Catalog of Publications

TASK: 1390.05.05 (CORE PLUS) SUPERVISE SUPPLY SUPPORT

CONDITION(S): Provided with MIMMS-AIS reports, appropriate equipment- and non-equipment-related publications, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review unit T/E.

2. Coordinate repair parts support requirements with unit supply officer.

3. Submit input for field budget requirements.

4. Manage/execute allocate funding.

5. Provide input to commander on unit maintenance float and operational float requirements.

6. Evaluate shop/section Pre-Expended Bin (PEB) and Equipment Repair Order (ERO) layette procedures.

7. Evaluate shop/section validation/reconciliation procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Unit MMSOP

2. Unit T/E

3. MCO 4400.16, Uniform Material Movement Issue and Priority System (UMMIPS)

4. MCO P4400.150, Consumer Level Supply Policy Manual

5. MCO P4400.82, MIMMS Control Item Management Manual

6. MCO P4790.2, MIMMS Field Procedures Manual

7. MCO P7100.8, Field Budget Guidance Manual

8. TM 4700-15/1, Equipment Recording Procedures

9. UM 4400-124, SASSY Using Units Procedures

10. UM 4400-15, Organic Property Control Procedures

11. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

TASK: 1390.05.06 (CORE PLUS) MANAGE SUPPORT AND TEST EQUIPMENT

CONDITION(S): Provided unit T/O, unit T/E, support and test equipment, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Review T/O and T/E.

2. Determine support and test equipment assets and requirements.

3. Manage tool sets, chests, and kits.

4. Manage collateral equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Stock Lists

2. Unit MMSOP

3. Unit T/E

4. Unit T/O

5. MC (ML), (Microfiche)

6. MCO 4733.1, Marine Corps Test, Measurement, and Diagnostic Equipment Calibration and Maintenance Program

7. MCO P4790.2, MIMMS Field Procedures Manual

8. TI 4733 15/1, Calibration Requirements TMDE Camp

9. TM 4700-15/1, Equipment Recording Procedures

TASK: 1390.05.07 (CORE PLUS) MANAGE CORRECTIVE MAINTENANCE (CM) PROGRAM

CONDITION(S): Provided MIMMS-AIS reports, engineer equipment, maintenance resources, and references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Determine CM requirements.

2. Manage production control priorities.

3. Conduct engineer equipment CM program.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. Appropriate Equipment Technical Publications

2. Unit MMSOP

3. MCO P4790.2, MIMMS Field Procedures Manual

4. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual

5. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

6. TM 4700-15/1, Equipment Recording Procedures

TASK: 1390.05.08 (CORE PLUS) MANAGE MIMMS-AIS

CONDITION(S): Provided MIMMS-AIS reports, supporting documentation, and the references.

STANDARD(S): To support mission requirements per the references.

PERFORMANCE STEPS:

1. Manage daily process report (DPR).

2. Manage daily transaction listing (DTL).

3. Manage daily SASSY transactions.

4. Manage daily LM2 report.

5. Manage weekly TAM report.

6. Manage weekly maintenance exceptions report.

7. Manage weekly material report.

8. Manage weekly LM2 report.

9. Manage weekly shop summary report.

10. Manage Class II reports (if required).

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: WO

REFERENCE(S):

1. MCO P4790.2, MIMMS Field Procedures Manual

2. TM 4700-15/1, Equipment Recording Procedures

3. UM 4790-5, MIMMS (AIS) Field Maintenance Procedures

DISTANCE LEARNING PRODUCT(S):

1. MCI 0410, MIMMS (AIS)

2. MCI 0414, Ground Maintenance Procedures for Supervisors

MOS 1391, BULK FUEL SPECIALIST

DISTANCE LEARNING PRODUCT(S)

TASK: 1391.01.01 (CORE) INSTALL PUMP ASSEMBLY EXPEDIENT REFUELER SYSTEM

CONDITION(S): Provided a pump assembly, expedient refueling system, 500 gallon pod, required tools, and reference.

STANDARD(S): To correctly connect the elbow coupler valve and hose assembly to the pump assembly per the reference.

PERFORMANCE STEPS:

1. Remove dust cover.
2. Inspect for leaks.
3. Check hose and components for presence of gaskets.
4. Connect elbow valve to fuel drum.
5. Connect suction hose to elbow drive.
6. Connect suction hose to pump.
7. Properly ground pump.
8. Connect discharge hose to pump.
9. Install hand service nozzle.
10. Install nozzle stand
11. Install grounding rod/cable for vehicle.
12. Set up inventory control procedures.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. SL-3-0307F, Pump Assembly Expedient Refueler

TASK: 1391.01.02 (CORE PLUS) SETUP SYSTEM TO RECIRCULATE FUEL

CONDITION(S): Provided access to installed fuel system and references.

STANDARD(S): To calculate the amount of fuel in the hose to the nearest gallon and recirculation time to within the nearest minute per the references.

PERFORMANCE STEPS:

1. Count number of sections of installed hose.

2. Calculate number of gallons contained in hose using references.

3. Compute recirculation time.

4. Connect hoses to recirculate through all components except hand service nozzle.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

2. TM 3835-10/1, Marine Corps Tactical Fuel Systems

3. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

4. TM 9130-12, Fuel Handling Procedures (Liquid Fuel)

TASK: 1391.01.03 (CORE) ASSEMBLE HELICOPTER EXPEDIENT REFUELING SYSTEM (HERS)

CONDITION(S): Given an SL-3 complete HERS system, 500 gallon drums filled with fuel and references.

STANDARD(S): To meet operational needs within fifteen minutes per the references.

PERFORMANCE STEPS:

1. Position the pump on a clear, level area with suction side toward the 500 gallon pods/drums.

2. Connect suction hose from discharge side of pods to suction side of pump.

3. Connect discharge hose from discharge side of pump to inlet side of filter separator/fuel monitor.

4. Connect discharge hose from outlet of filter separator/fuel monitor to Y connector.

5. Connect discharge hose from Y connector to inlet side of 2 inch meter.

6. Connect discharge hose from outlet side of meter to pressure locking nozzle and mount on nozzle stand.

7. Ground pump unit with grounding rod and wire.

8. Ground filter separator/fuel monitor with grounding rod and wire.

9. Install aircraft grounding cable at nozzle stand area.

10. Set up the other pump, filter separator/fuel monitor, and meters.

11. Ensure enough hose is used from the meter to nozzle to provide a minimum of 100ft between fuel points.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

2. SL-3 073870C, Stock List for H.E.R.S.

3. TM 3835-10/1, Marine Corps Tactical Fuel Systems

4. TM 9130-12, Fuel Handling Procedures (Liquid Fuel)

TASK: 1391.01.04 (CORE) PLACE FIRE FIGHTING EQUIPMENT

CONDITION(S): Provided a truck to tow fire fighting equipment trailer, a layout of fuel system, and references.

STANDARD(S): To ensure adequate protection throughout the system per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Inform driver where to place fire fighting equipment to include hose cart, no less than 100 feet from berms or as authorized by higher echelon.

3. Perform operational checks.

4. Document corrective action taken.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: LCpl

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

2. TM 07661B-14/1, Extinguisher, Fire, Dry Chemical and Aqueous Film Forming Foam, Self-Contained, Model D-4

3. TM 08922A-14/1, Installation and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

4. TM 08922A-14/1 W/CH 1&A, Pump Centrifugal 125 GPM Diesel

5. TM 3835-10/1, Marine Corps Tactical Fuel Systems

6. TM 9130-12, Fuel Handling Procedures (Liquid Fuel)

TASK: 1391.01.05 (CORE) DIRECT BULK FUEL SITE CONSTRUCTION/INSTALLATION

CONDITION(S): Provided a fuel distribution plan with a system layout, necessary equipment, engineer equipment operators, and references.

STANDARD(S): To provide equipment and fuel to meet the needs of all using units, constructed with all fittings properly connected, components in proper position per the fuel distribution plan and applicable environmental and personal safety standards met per the reference.

PERFORMANCE STEPS:

1. Coordinate tactical fuel preparation requirements (site clearing, road improvements/construction and earthen berm construction for fabric fuel tanks) with the unit engineer.

2. Supervise Bulk Fuel Company or MWSS Fuels Branch deployment and installation of Tactical Fuel System (TFS) in a prepared site.

3. Monitor adherence to developed schedule.

4. Provide guidance and assistance to engineer personnel during bulk fuel site preparation.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual

2. NAVAIR 00-80T-115, Expeditionary Airfields NATOPS Manual

3. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.01.06 (CORE) PLAN BULK FUEL SYSTEM LAYOUT

CONDITION(S): Provided an operations order, location of the operation, written fuel requirements of the operation, and references.

STANDARD(S): To meet the requirements of the operations order and the references.

PERFORMANCE STEPS:

1. Review the fuel requirements.

2. Review applicable publications.

3. Conduct a site reconnaissance.

4. Conduct a terrain analysis.

5. Develop a system layout plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 10-69, Petroleum Supply Point Equipment and Operations

2. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

3. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.01.07 (CORE) SET UP SIXCON PUMP MODULE AND TANK

CONDITION(S): Given a pump module, required components, and the reference.

STANDARD(S): To meet mission requirements while observing safety precautions per the reference.

PERFORMANCE STEPS:

1. Install tank modules at site within 10 degrees of level.

2. Remove ground rod and drive it into the ground approximately 6 feet.

3. Connect pump module to fuel tank using vertical and horizontal tank module connection.

4. Turn cones to open position. (Cones should align with body collars.)

5. Place fuel tank on top, making sure corner fittings have properly engaged vertical connectors.

6. Using pin or finger, rotate both cones 90 degrees to lock position.

7. Insert pin and rotate to lock position.

8. For horizontal connection, turn horizontal connector jack screws counter clockwise until swivel locks are fully open.

9. Place horizontal connectors in corner castings of first module, tighten jack screws, and move second module into position.

10. Connect fuel suction hose to suction manifold and fuel tank, and open suction hose coupling valve.

11. Start pump.

12. Dispense fuel.

13. Shut down.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09003A/09002A-15/1, Sixcon Fuel Pump Module

DISTANCE LEARNING PRODUCT(S):

1. MCI 1391, Bulk Fuel Specialist

DUTY AREA 02 - EQUIPMENT OPERATIONAL PROCEDURES

TASK: 1391.02.01 (CORE) OPERATE THE 125 GPM PUMP IN SUPPORT OF FUEL OPERATIONS

CONDITION(S): Given a tactical situation, a 125 gpm pump, and references.

STANDARD(S): To complete the requirement of the operation safely and with no damage to the equipment per the references.

PERFORMANCE STEPS:

1. Perform pre-start checks on pump motor (fuel and oil level).
2. Ensure pump is properly grounded and volute is full.
3. Move throttle lever to high RPM position.
4. Rotate compression release lever to 12 o'clock position.
5. Pull out extra fuel button.
6. Operate priming pump lever up and down several times.
7. Insert hand crank in drive socket.
8. Crank engine clockwise with increasing speed.
9. Once engine starts, remove hand crank and secure in storage position.
10. Operate engine at reduced speed for 3-5 minutes to allow for cooling.
11. Stop engine by rotating throttle control lever fully closed.
12. Perform after operations checks.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 08922A-14/1 W/CH 1&A, Pump Centrifugal 125 GPM Diesel
2. TM 09003A/09002A-15/1, Sixcon Fuel Pump Module

TASK: 1391.02.02 (CORE) OPERATE THE 350 GPM PUMP IN SUPPORT OF FUEL OPERATIONS

CONDITION(S): Given a tactical situation, a 350 gpm pump, and reference.

STANDARD(S): To complete the requirement of the operation safely and with no damage to the equipment per the reference.

PERFORMANCE STEPS:

1. Perform pre-start checks on pump motor (fuel and oil level).

2. Ensure pump is grounded, volute is full, and pump level and secure.

3. Push and raise throttle control, releasing it to the idle position.

4. Open control panel.

5. Pull out emergency stop switch.

6. Push in oil pressure bypass switch and start switch simultaneously.

7. As engine starts, release start switch.

8. Release oil pressure bypass, as oil pressure rises above 4 psi.

9. Adjust pump speed gradually to meet mission requirements.

10. Decrease idle speed to 800 RPM.

11. Close discharge and suction valves, if opened for mission.

12. Push in emergency stop switch.

13. Perform after operation checks.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 10-4320-343-14, Fuel Pump Assembly, 350 GPM

TASK: 1391.02.03 (CORE) OPERATE THE 600 GPM PUMP IN SUPPORT OF FUEL OPERATIONS

CONDITION(S): Given a tactical situation a 600 gpm pump, and references.

STANDARD(S): To complete the requirement of the operation safely and with no damage to the equipment per the references.

PERFORMANCE STEPS:

1. Perform pre-start checks.

2. Set engine instrument switch to on.

3. Check that the alternating charge light is on, indicating the battery is charged.

4. Ensure engine shut down control is in the 'in' position.

5. Ensure throttle control is turned all the way in, clockwise to the idle position.

6. Depress and hold oil bypass switch in, and simultaneously press the starter button.

7. When engine starts and idles, oil pressure should rise quickly. Release oil bypass switch as oil pressure gauge indicates 40 psi.

8. Increase idle speed to 1200 RPM to prime pump.

9. Once pump is primed, increase idle to 1800 RPM for about five minutes.

10. Adjust idle to required operating speed.

11. Decrease engine speed to idle (1200 RPM), and allow engine to idle for 3-5 minutes.

12. Close gate valves, pull out engine shut down control, and turn off the engine instrument switch.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 4930-15&P/3, Pump Assembly 600 GPM

2. TM 4930-15/2, Pump Assembly 600 GPM

3. TM 96702D-14/1, Pump Centrifugal Engine 600 GPM

TASK: 1391.02.04 (CORE) OPERATE THE TWIN AGENT UNIT (TAU) IN SUPPORT OF FUEL OPERATIONS

CONDITION(S): Given a Tactical Fuel System (TFS) site, Twin Agent Unit (TAU), and references.

STANDARD(S): To meet mission requirements while observing safety precautions per the references.

PERFORMANCE STEPS:

1. Perform TAU pre-operational serviceability checks.

2. Position TAU and TAU hose reel cart in TFS site to provide maximum coverage of all fuel tanks.

3. Perform daily pre-operational checks.

4. Charge AFFF and PKP nitrogen cylinders by opening respective charge valves for each.

5. Don fire fighting protective boots, clothing, and hood.

6. Deploy TAU hose line to fuel fire site.

7. Safely extinguish fuel fire.

8. Perform post-operational checks.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 07661B-14/1, Extinguisher, Fire, Dry Chemical and Aqueous Film Forming Foam, Self-Contained, Model D-4

2. TM 07661C-14/1, Extinguisher, Fire, Dry Chemical and Aqueous Film Forming Foam, Self-Contained, Model D-4

3. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.02.05 (CORE) OPERATE HOSE EVACUATION KIT

CONDITION(S): Given a tactical situation, hose evacuation kit, and reference.

STANDARD(S): To meet mission requirements while observing safety precautions per the reference.

PERFORMANCE STEPS:

1. Check pipe, pipe welds, and couplings on sender and receiver units for damage or corrosion.

2. Check eductor assembly for any damage or corrosion.

3. Check poly pigs for any loss of material.

4. Check carrying chest for any signs of damage or corrosion.

5. Install one hose clamp securely on hose closest to discharge flange on pump.

6. Close pump gate valve.

7. Disconnect hose from pump.

8. Insert poly pig into sender unit.

9. Connect male camlock coupling on sender unit to female camlock coupling of hose.

10. Attach compressor hose to sender unit.

11. Attach hose clamp on opposite end of hose.

12. Disconnect hose from destination.

13. Connect female end of receiver unit assembly to end of hose removed.

14. Place male end of receiver assembly to end of hose removed.

15. Release hose clamp.

16. Supply air pressure at 70 psi.

17. When air pressure at compressor drops, indicating that poly pig has arrived, turn off air pressure.

18. Disconnect receiver unit from hose, drain line, and remove poly pig from receiver unit.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 05672B-12&P/1, Operation and Maintenance Manual with Repair Parts and Component List, Fuel Hose Evacuation Kits

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TASK: 1391.02.06 (CORE) OPERATE 250 CFM COMPRESSOR

CONDITION(S): Given a tactical situation, 250 CFM compressor, and reference.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to equipment per the reference.

PERFORMANCE STEPS:

1. Identify controls and indicator.

2. Perform before operation checks according to Table 2-1 and DA Form 2258.

3. Set parking brake.

4. Raise or lower front leveling jack until compressor is within 15 degrees of level.

5. Open manual blow down valve to relieve pressure, then close manual blow down valve after relieving pressure.

6. Close and secure all service and hose reel valves.

7. Completely push in manual stop handle, and simultaneously press start button and safety circuit bypass switch.

8. When engine starts, release only the start button. Continue to press circuit bypass until discharge pressure gauge reaches 40 psi.

9. When discharge pressure gauge reaches approximately 50 psi and engine is warm, press service air button.

10. When pressure reaches 80-120 psi, compressor is ready for use.

11. Perform during operations checks.

12. To stop unit, close all valves, pull manual stop handle, and hold out until unit stops.

13. Conduct after operations checks.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 5-4310-256-15, Compressor Recip Air Hand, Truck Mounted

DUTY AREA 03 - NON-EQUIPMENT OPERATIONAL PROCEDURES

TASK: 1391.03.01 (CORE) CHECK WATER LEVEL WITH WATER FINDING PASTE

CONDITION(S): Provided gauging equipment, water finding paste, and references.

STANDARD(S): To determine total amount of water in each tank per the references.

PERFORMANCE STEPS:

1. Apply thin coat of water finding paste to the portion of the gauge stick that will be at the interface of water products.

2. Insert gauge stick into the tank through the standpipe to the bottom of the tank.

3. Leave the gauge stick in position for 5 to 10 seconds for light products and 15 to 30 seconds for heavier products.

4. Remove the gauge stick from the tank.

5. Observe the water cut on the scale.

6. Record the water cut to the nearest eighth of an inch.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

2. STP 1077F25-SM-TG, Soldiers Manual & Training Guide, MOS 77F Petroleum Supply Specialist Skills Level 2,3,4,& 5

TASK: 1391.03.02 (CORE) CONDUCT GRAVITY (API) TESTS AND CORRECT TO 60 DEGREES

CONDITION(S): Provided a clean sample container, appropriate hydrometer, graduated cylinder, appropriate thermometer, Tables ASTM D-1250 5B and 6B, and references.

STANDARD(S): To ensure the resulting gravity will be within 0.5 degrees per the references.

PERFORMANCE STEPS:

1. Collect a clean sample.

2. Pour sufficient quantity of product into the graduated cylinder to float the hydrometer.

3. Record the degree API reading on the hydrometer scale at the meniscus.

4. Remove hydrometer.

5. Insert the thermometer for at least one minute.

6. Record the reading on the thermometer.

7. Enter temperature reading and hydrometer reading to Table 5B to obtain the corrected API.

8. Compare the corrected API to specifications for that product in MIL HDBK 200G.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. ASTM D 1298, API Gravity

2. ASTM D-1250, Petroleum Measurement Table, Volume Correction Factors

3. ASTM D287, API Gravity

4. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

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TASK: 1391.03.03 (CORE PLUS) CONDUCT MARK II WATER TESTS

CONDITION(S): Provided fuel detector Mark III and Mark II viewer kit, detector test pads and standards, sample pads, and references.

STANDARD(S): To ensure the parts per million of free water in the fuel sample will be accurately determined for use per the references.

PERFORMANCE STEPS:

1. Obtain a 500ml sample of the product.

2. Open a free water detector envelope and place the detector pad, orange side up, on the Mark III filter base.

3. Attach the sample bottle receiver to the filter base and plug in the ground wire jack.

4. Check to make certain the fuel flask is empty and the drain valve closed.

5. Shake the sample bottle containing the 500ml fuel sample vigorously for approximately 30 seconds.

6. Immediately after shaking, turn on the vacuum pump, unscrew bottle cap, and place the bottle receiver and pad assembly firmly over the end of the bottle. Pick up the entire assembly as a unit, invert it, and insert it into the fuel flask of the Mark III fuel detector.

7. After the 500ml sample has passed through the detector pad, turn off the vacuum pump immediately, and remove the bottle and the bottle receiver.

8. Remove the detector pad from the filter base using forceps and place it (orange side up) in the free water detector slide depression.

9. Light ultraviolet bulb in the free water detector by holding the light switch in the ON position. Insert the slide containing the test pad.

10. Look through the view port of the box and compare the brightness of the flourescence of the test pad with that of the set of standards to determine the amount of free water.

11. Drain fuel from the flask of the AEL Mark III fuel detector through the tygon tubing.

12. Record results per local SOP.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Local SOP

2. Sheet Metal Shop Practices

3. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

4. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

TASK: 1391.03.04 (CORE PLUS) CONDUCT MARK III SEDIMENT TESTS

CONDITION(S): Provided fuel detector AEL Mark III, sample pads, 800ml fuel sample, and references.

STANDARD(S): To accurately determine the milligrams of sediment in the fuel sample per the references.

PERFORMANCE STEPS:

1. Remove the power cable from its storage inside the instrument cover and connect to a suitable source of 110 volts, 60 Hz power.

2. Turn the light switch to the ON position. The light system should be allowed to warm up for two or three minutes prior to use as the cold meter has a tendency to drift during the warm-up.

3. Place two millipore filters piggy back, right side up, on the filter holder.

4. Reassemble the filter holder and bottle assembly.

5. Mark the 32oz polyethylene sample bottle 5-inches from the bottom and fill the bottle to this mark.

6. Remove the filter holder and bottle receiver assembly from the fuel flask and place the bottle receiver end over the top of the 32oz polyethylene sample bottle.

7. Attach the ground wire to the filter holder and the bottle receiver assembly, and insert it into the opening provided for it adjacent to the drain cock.

8. The entire assembly (filter holder, bottle receiver, and fuel sample) is then picked up as a unit, inverted, and inserted (filter holder end) into the fuel flask.

9. Start the pump.

10. After all fuel has drained from the bottle, remove the bottle.

11. Stop the pump after all the fuel has passed through the filters and the bottle receiver component has been removed, exposing the filters.

12. Drain the fuel from the flask through the tygon tubing into a suitable container.

13. With no filter in the receptacle, swing the photocell into measuring position.

14. Using the rheostat knob, adjust the light intensity to give a reading of 0.060 on the milliameter.

15. Using forceps, pick up the contaminated (top) filter and wet with clean (prefiltered) JP-5 from the 16 oz. polethylene bottle.

16. Lift the photocell and, using forceps, place contaminated (top) filter in the receptacle.

17. Swing the photocell back into the measuring position.

18. Record the readings on the milliameter.

19. Remove the filter, and check to see that the meter still reads 0.060 milliamps.

20. Repeat the same steps to obtain reading for the bottom filter.

21. Subtract the meter reading obtained from the contaminated (top) filter from the meter reading obtained from the clean (bottom) filter.

22. Using the calibration curve, determine the sediment content.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

2. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

TASK: 1391.03.05 (CORE) CONDUCT VISUAL FUEL TESTS

CONDITION(S): Provided a clean, clear fuel collection container, a fuel source, and references.

STANDARD(S): To ensure fuel is the correct color, clean, bright, and free of visible particles, water, or cloudiness, per the references.

PERFORMANCE STEPS:

1. Review Section III, and Table 3-1 of the references.

2. Collect a fuel sample in a clean container from a dispensing nozzle spout or from as far from the fuel source as possible.

3. Check the color of the fuel against Table 3-1 in the references.

4. Swirl the fuel in the container to form a vortex (whirlpool).

5. Check to ensure the sediment falls within the acceptable limits per Table 3-3 in the references.

6. Check fuel sample for clouds or water in the sample, and ensure the water in the sample falls within acceptable limits per Table 3-4 in the references.

7. Stop fuel operations and notify fuel control officer of incorrect fuel color or evidence of microbiological growth.

8. Initiate corrective maintenance action for the fuel system if samples show unacceptable levels of water or sediment.

9. Document corrective maintenance performed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

2. TM 08922A-14/1, Installation and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

3. TM 9130-12, Fuel Handling Procedures (Liquid Fuel)

TASK: 1391.03.06 (CORE PLUS) OBTAIN ALL-LEVEL FUEL SAMPLES

CONDITION(S): Provided tank gauging tape, API Tables 5 & 6, clean sampling container, petroleum testing kit, and references.

STANDARD(S): To meet standards in API Tables 5 & 6, per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Collect all-level fuel samples.

3. Determine that fuel samples meet criteria listed in API Tables 5 & 6.

4. Document action taken to Bulk Fuel Officer.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Local SOP

2. ASTM D-1250, Petroleum Measurement Table, Volume Correction Factors

3. NAVEDTRA 10883-B, Fundamentals of Petroleum

TASK: 1391.03.07 (CORE PLUS) DETERMINE FUEL SYSTEM ICING INHIBITOR (FSII) CONTENT USING B-2 TEST METHOD

CONDITION(S): Given a sample of aviation turbine fuel, grades JP4/JP5, and a B-2 anti-icing additive test kit, and references.

STANDARD(S): To determine the Anti Icing Additive (AIA) content per the references.

PERFORMANCE STEPS:

1. In a clean and dry container, obtain a pint sample of the fuel to be tested.

2. Set up apparatus and fill an aluminum dish one half full of water.

3. With graduated cylinder, transfer exactly 160ml of the fuel (from step 1) to the separatory funnel.

4. Add exactly 2ml of water to the separatory funnel from the aluminum dish supply. Cap the funnel and shake vigorously for 3 minutes, then place it in the ring stand.

5. Open the cover to the refractomer’s window, make certain it is clean, and apply several drops of water to it from the aluminum dish supply. Close the cover and, through the eyepiece, observe the location of the shadow line in the viewer. Remove the plastic rod from the instruments base and adjust the set screw (in the base) so the shadow line intersects the zero line of the scale. Clean cover and window.

6. Carefully rotate the separatory funnel’s drain cock so a trickle of fluid can be taken in a clean dry aluminum dish.

7. Transfer the fluid from the aluminum dish to refractomer's window, close the cover, and observe the position of the shadow line.

8. Properly dispose of the liquids, wash the apparatus in soap and water, and dry all items.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. FED-STD 791, Lubricants, Liquid Fuels, and Related Products: Methods of Testing

2. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

3. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

TASK: 1391.03.08 (CORE) IMPLEMENT PETROLEUM QUALITY ASSURANCE AND CONTROL PROGRAM

CONDITION(S): Provided with fuel requiring testing, test kits and equipment, trained personnel, and references.

STANDARD(S): To confirm API listed standards for quality control of petroleum products per the references.

PERFORMANCE STEPS:

1. Prepare a quality assurance and control SOP in accordance with the references.

2. Ensure all sampling, test equipment, and materials are available for personnel doing quality surveillance.

3. Ensure personnel are trained in the preparation of sample tags and logs.

4. Ensure personnel understand and comply with SOP.

5. Inspect for adherence to quality control procedures.

6. Identify and list all discrepancies.

7. Issue corrective orders.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. MCO 4855.10, Product Quality Deficiency Report (PQDR)

2. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

3. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

4. TM 08922A-14/1, Installation and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

5. TM 3835-10/1, Marine Corps Tactical Fuel Systems

TASK: 1391.03.09 (CORE) TEST AVIATION FUEL UTILIZING THE AQUA-GLO TEST WITH AVIATION FUEL TEST KIT

CONDITION(S): Given the aviation fuels test kit, waste can, clean up rags, refueling system, and references.

STANDARD(S): To determine the amount of water in the product per the references.

PERFORMANCE STEPS:

1. Calibrate meter assembly.

2. Couple the detector pad holder assembly to the fuel point sampling coupler.

3. Flush detector assembly with approximately one gallon of acetone.

4. Use tweezers to insert a detector pad into the detector pad holder.

5. Plug into sampling coupler and draw 500ml sample through detector.

6. Remove test pad from holder with tweezers.

7. Blot excess fuel from test pad.

8. Insert test pad into meter assembly.

9. Turn on lamp and zero pointer on meter.

10. Release button, turn lamp off, and allow pointer to stabilize.

11. Take reading, and log and report it in parts per million (ppm).

12. Check product specifications to determine if product meets specifications.

13. Report all not-on-specification to superior. If not-on-specification do not issue fuel.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

2. TM 5-6630-218-10, Aviation Fuel Contaminant Test Kit

TASK: 1391.03.10 (CORE) COMPLETE PETROLEUM SAMPLE TAG (DA FORM 1804)

CONDITION(S): Provided petroleum sample tag (DA Form 1804), a petroleum sample, and references.

STANDARD(S): To identify different samples of fuel per the references.

PERFORMANCE STEPS:

1. Review the appropriate section of the references.

2. Complete petroleum sample tag (DA Form 1804).

3. Document and submit per the record.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

2. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

TASK: 1391.03.11 (CORE) DIRECT FUEL SAMPLING/GAUGING/TESTING

CONDITION(S): Provided operations orders and references.

STANDARD(S): To ensure compliance with written SOP outlining operational procedures per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Write a unit SOP.

3. Provide direction to troops performing tasks within the fuel sampling/gauging testing program.

4. Update the SOP as required to meet set military standards.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. MCO 4855.10, Product Quality Deficiency Report (PQDR)

2. MIL HDBK 200, Quality Surveillance Handbook for Fuels, Lubricants and Related Products

3. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

4. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.04.01 (CORE) PERFORM OPERATORS PUMP SCHEDULED PREVENTIVE MAINTENANCE

CONDITION(S): Provided a pump, required tools, oil, preventive maintenance roster, and references.

STANDARD(S): To meet maintenance requirements per the references.

PERFORMANCE STEPS:

1. Review preventive maintenance roster.
2. Review the references.
3. Perform pump scheduled preventive maintenance.
4. Check for proper operation.
5. Document the maintenance performed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 4930-15/2, Pump Assembly 600 GPM
2. TM 5-4320-226-14, 350 GPM Pump or Appropriate Model TM
3. TM 5-4320-304-14, Pump, Reciprocating, Diaphragm, 125 GPM

TASK: 1391.04.02 (CORE) PERFORM 500 GALLON COLLAPSIBLE DRUM PREVENTIVE MAINTENANCE

CONDITION(S): Provided a 500 gallon collapsible drum, tools, preventive maintenance roster, and references.

STANDARD(S): To meet maintenance requirements per the references.

PERFORMANCE STEPS:

1. Inspect vents to ensure no obstructions.
2. Inspect inlet and outlet fittings.
3. Inspect position and operation of gate elbow valves.
4. Visually inspect tank drum exterior for leaks and/or corrosion. Provide corrective maintenance if found.
5. Inspect water protection, guy lines, and camouflage.
6. Remove any accumulation of water in the tank.

7. Visually inspect general integrity of tank position in berm.

8. Perform air leakage test by filling tank drum with air.

9. Document maintenance performed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 04486B-15, Drum, Collapsible Liquid Fuel 500 GAL

2. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.04.03 (CORE) PERFORM FILTER/SEPARATOR PREVENTIVE MAINTENANCE

CONDITION(S): Provided a filter/separator, tools, fittings, filters, soap, water, o-rings, cleaning solvent, preventive maintenance roster, and references.

STANDARD(S): To meet maintenance requirements per the references.

PERFORMANCE STEPS:

1. Review preventive maintenance roster.

2. Review the references.

3. Check water level sight gauge.

4. Inspect for loose or damaged valves, lines, and fittings.

5. Inspect differential pressure indicator and gauge for secure mounting, leaky gasket, loose or damaged tubing, and pressure variation during operation. Repair any discrepancies or refer them for repair as required.

6. Check frame for broken welds or cracks. Repair as necessary.

7. Replace broken or frayed cable, and broken or cracked clamps on the ground cable assembly.

8. Inspect and replace damaged or leaking gaskets.

9. Install dust plugs, dust caps, and gaskets after operation.

10. Document maintenance performed.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: LCpl

REFERENCE(S):

1. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

2. TM 5-4330-211-12, Operator and Organizational Maintenance Manual, 350 GPM Pump

3. TM 5-4330-217-12, Operator and Organizational Maintenance Manual, Filter/Separator, Liquid Fuel 100 GPM, Frame Mounted

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TASK: 1391.04.04 (CORE) PERFORM FUEL MONITOR (GO/NO GO) PREVENTIVE MAINTENANCE

CONDITION(S): Provided fuel monitor, tools, fuses, o-rings, cleaning solvent, soap, water, preventive maintenance roster, and references.

STANDARD(S): To ensure the fuel monitor will operate properly per the references.

PERFORMANCE STEPS:

1. Review preventive maintenance roster.

2. Review the references.

3. Perform fuel monitor preventive maintenance.

4. Inspect for loose tubing and fittings.

5. Inspect for damaged packaging.

6. Check for proper operation and leaks.

7. Document maintenance performed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

2. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

3. TM 5-4330-211-12, Operator and Organizational Maintenance Manual, 350 GPM Pump

4. TM 5-4330-217-12, Operator and Organizational Maintenance Manual, Filter/Separator, Liquid Fuel 100 GPM, Frame Mounted

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TASK: 1391.04.05 (CORE) PERFORM FUEL TANK OPERATOR PREVENTIVE MAINTENANCE

CONDITION(S): Provided a fuel tank, tools, low pressure steam, soap, water, preventive maintenance roster, and reference.

STANDARD(S): To meet maintenance requirements per the references.

PERFORMANCE STEPS:

1. Review the preventive maintenance roster.
2. Review the reference.
3. Perform fuel tank preventive maintenance.
4. Document the maintenance performed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.04.06 (CORE) PERFORM TWIN AGENT UNIT (TAU) PREVENTIVE MAINTENANCE

CONDITION(S): Provided a TAU, hose cart nozzle, spanner wrench, dipstick, funnel, AFFF solution compound, dry chemical compound, preventive maintenance roster, and reference.

STANDARD(S): To meet maintenance requirements per the reference.

PERFORMANCE STEPS:

1. Review the preventive maintenance roster.
2. Review the reference.
3. Perform TAU preventive maintenance.
4. Document maintenance performed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. TM 07661B-14/1, Extinguisher, Fire, Dry Chemical and Aqueous Film Forming Foam, Self-Contained, Model D-4

TASK: 1391.04.07 (CORE) PERFORM COLLAPSIBLE FUEL TANK REPAIRS

CONDITION(S): Provided a collapsible fuel tank, fuel tank repair kit, tools, and reference.

STANDARD(S): To ensure the tank does not leak per the reference.

PERFORMANCE STEPS:

1. Review the reference.
2. Perform fuel tank repairs.
3. Check for leaks.
4. Document maintenance performed.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.04.08 (CORE) ASSIST IN THE PREPARATION OF TACTICAL FUEL SYSTEMS (TFS) FOR STORAGE

CONDITION(S): Provided a TFS, related equipment, applicable tools, and references.

STANDARD(S): To ensure that TFSs are properly prepared for storage per the references.

PERFORMANCE STEPS:

1. Review applicable references.
2. Prepare TFS for storage.
3. Inspect components for servicability.
4. Ensure components are clean and dry.
5. Ensure components are packaged per local SOP's.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual
2. TM 3835-10/1, Marine Corps Tactical Fuel Systems
3. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)
4. TM 9130-12, Fuel Handling Procedures (Liquid Fuel)

TASK: 1391.04.09 (CORE) PERFORM PREVENTIVE MAINTENANCE ON SIXCON PUMP MODULE, TANK AND REFERENCES

CONDITION(S): Given sixcon pump, module, and tank requiring 1st echelon maintenance.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to equipment per the references.

PERFORMANCE STEPS:

1. Review preventive maintenance roster.
2. Perform before operation maintenance.
3. Perform during operations checks.
4. Perform after operations checks.
5. Perform weekly, monthly, and semiannual preventive maintenance.
6. Schedule future maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09003A/09002A-15/1, Sixcon Fuel Pump Module

DISTANCE LEARNING PRODUCT(S):

1. MCI 1391, Bulk Fuel Specialist

TASK: 1391.04.10 (CORE) PERFORM 250 CFM PREVENTIVE MAINTENANCE

CONDITION(S): Given a 250 CFM compressor requiring 1st echelon maintenance and the reference.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to equipment per the reference.

PERFORMANCE STEPS:

1. Review preventive maintenance roster.
2. Perform before operation maintenance.
3. Perform during operations checks.
4. Perform after operations checks.
5. Perform weekly, monthly, and semiannual preventive maintenance.
6. Schedule future maintenance actions.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 5-4310-256-15, Compressor Recip Air Hand, Truck Mounted

DUTY AREA 05 - CORRECTIVE MAINTENANCE

TASK: 1391.05.01 (CORE) DRAW SCHEMATIC OF BULK FUEL OPERATIONS

CONDITION(S): Provided operations orders, location of the operation, bulk fuel system layout, and references.

STANDARD(S): To adhere to the plan and display the location of system components, receiving/dispensing stations, communications system and lines, beach unloading site, booster stations, fire prevention equipment, and movement of systems components per the references.

PERFORMANCE STEPS:

1. Review the operations orders.
2. Study the location.
3. Review the bulk fuel system layout.
4. Review Tactical Fuel System Technical Manual or NAVAIR NATOPS.
5. Draw a schematic of bulk fuel operations.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual
2. TM 3835-10/1, Marine Corps Tactical Fuel Systems
3. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.05.02 (CORE) EXECUTE OIL SPILL CONTINGENCY PLAN

CONDITION(S): Provided an operations order, an operating bulk fuel system, an oil spill contingency plan, a planned or unplanned oil spill rehearsal, and the references.

STANDARD(S): To contain fuel spills, notify superiors immediately, and prevent fires per the references.

PERFORMANCE STEPS:

1. Halt pumping action.
2. Close valves.
3. Halt pumping operations.
4. Contain spills.

5. Notify superiors of the incident.

6. Use fire prevention equipment and procedures if required.

7. Commence clean-up.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: LCpl

REFERENCE(S):

1. Organizational Fuel Spill Control and Countermeasures (SPCC) Plan

2. NAVFAC P-908, Oil Spill Control for Inland Waters and Harbors

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TASK: 1391.05.03 (CORE) DETERMINE DAY OF SUPPLY BY TYPE OF FUEL

CONDITION(S): Provided operations orders, using unit T/E, using unit estimates, and the references.

STANDARD(S): To reflect using unit fuel needs by type of vehicles/aircraft per the references.

PERFORMANCE STEPS:

1. Review the references.

2. List number and kind of equipment to be supported from the T/E.

3. State if the day of supply is based on estimate or use.

4. List equipment storage capability.

5. Write an estimate of day of supply by type of fuel.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. Aviation Support Logistics (ASL) Aircraft Fuel Consumption Spreadsheets

2. Log Management Information System (LMIS) file

3. FM 10-67, Petroleum Supply in Theater of Operation

4. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1391.05.04 (CORE PLUS) DETERMINE SOURCE OF SUPPLY

CONDITION(S): Provided an operations plan, local SOPs, and references.

STANDARD(S): To identify supplier by name and type (military or commercial), routes of supply (truck, pipeline, rail, etc.), packaging, and means of request per the references.

PERFORMANCE STEPS:

1. Determine and list source of supply.

2. Document whether the source of supply is military or commercial.

3. Determine the route by which fuel is to be received.

4. Determine how the supply will be packaged.

5. Determine proper procedures and chain of command for requesting the supply.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. DOD 4140.25, Management of Bulk Petroleum Products, Storage and Distribution Facilities

2. MCO 4400.170, Control and Accountability of Petroleum and Related Products/Coals

3. MCWP 4-11.6, Bulk Liquid Operations

4. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.05.05 (CORE) MONITOR PETROLEUM OILS AND LUBRICANTS (POL) FUEL CONSUMPTION/STORAGE

CONDITION(S): Provided containers of POL fuel, storage area for POL fuel, usage records, and references.

STANDARD(S): To ensure correct and efficient consumption of POL fuels, and safe storage until the required and proper amounts of POL fuel will be on hand to support the mission per the references.

PERFORMANCE STEPS:

1. Inspect usage records.

2. Inspect POL fuel storage areas.

3. List all discrepancies noted.

4. Provide direction to resolve discrepancies found.

5. Report safety deficiencies to higher headquarters for immediate action.

6. Requisition fuel as needed through higher headquarters.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. MCO 4400.170, Control and Accountability of Petroleum and Related Products/Coals

2. MCWP 4-11.6, Bulk Liquid Operations

3. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.05.06 (CORE) PLAN A PETROLEUM FIRE PREVENTION AND SAFETY PROGRAM

CONDITION(S): Given a petroleum facility, fire fighting equipment, and references.

STANDARD(S): To ensure a safe work area for personnel and maximum protection of facilities and equipment.

PERFORMANCE STEPS:

1. Recognize hazards within the area of responsibility.

2. Determine the number of personnel working in the area.

3. Ensure personnel receive first-aid and fire-fighting training.

4. Ensure first-aid equipment is located in the area.

5. Determine if equipment is operating in the area without flame and spark arrestors.

6. Determine if spills, leaks, or vapors present a problem in the area.

7. Take corrective actions as necessary.

8. Develop a unit fire and safety SOP which includes fire-fighting and fire evacuation plans.

9. Inspect the area regularly to ensure compliance with the fire and safety program.

10. Conduct fire drills monthly to check validity of fire-fighting and evacuation plans.

11. Review accident reports per local policy.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 10-67, Petroleum Supply in Theater of Operation

2. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

3. TM 08922A-14/1, Installation and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.05.07 (CORE) EMPLOY FUEL DISTIBUTION SYSTEMS

CONDITION(S): Provided an operations order, a fuel distribution system plan, equiupment, materials, personnel, and references.

STANDARD(S): To sufficiently support the fuel requirements specified in the operations order per the references.

PERFORMANCE STEPS:

1. Compare the fuel distribution system requirements indicated in the operations order to those specified in the operations order per the references.

2. Identify discrepancies.

3. Issue orders to correct discrepancies.

4. Issue order to implement the Fuel Distribution Plan.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FMFM 3-1, Command and Staff Action

2. MCWP 4-11.6, Bulk Liquid Operations

TASK: 1391.05.08 (CORE) DEVELOP BULK FUEL SITE REAR AREA SECURITY PLAN

CONDITION(S): Provided a tactical situation, subordinate personnel, and references.

STANDARD(S): To effectively safeguard personnel, troop movement, equipment and fuel locations, and tactical responses to possible threats per the references.

PERFORMANCE STEPS:

1. Write a bulk fuel site rear area security plan.

2. Assign personnel to security position.

3. Alert combat convoy commanders to assist with hoseline surveillance.

4. Coordinate with adjacent units.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. FM 90-14, Rear Battle

2. FMFM 13, MAGTF Engineer Operations

3. FMFM 6-4, Marine Rifle Company/Platoon

4. FMFM 6-5, Marine Rifle Squad

5. FMFM 7-1, Fire Support Coordination

6. FMFM 7-2, Naval Gunfire Support

7. MCWP 4-11.6, Bulk Liquid Operations

8. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.05.09 (CORE) DEVELOP A PETROLEUM ENVIRONMENTAL CONTROL PROGRAM

CONDITION(S): Given a petroleum unit/facility; hazardous material information sheets, installation environmental SOP, references; local, state, federal, and/or host nation environmental laws.

STANDARD(S): To ensure minimum pollution to the environment due to petroleum operations.

PERFORMANCE STEPS:

1. Establish procedures to contain and clean up POL spills in all environments using available equipment.

2. Ensure personnel know spill clean-up procedures and spill reporting procedures per environmental laws, policies, and regulations.

3. Monitor all operations to ensure compliance with applicable environmental laws, policies, and regulations.

4. Ensure contaminated fuel and other waste materials are collected and disposed of in an environmentally safe manner.

5. Ensure assigned personnel receive comprehensive environmental training.

6. Establish a unit SOP which reflects applicable environmental laws, regulations and policies.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. AR 200-1, Environmental Protection and Enhancement

2. TC 5-400 W/CH #01, Unit Leader's Handbook For Environmental Stewardship

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TASK: 1391.05.10 (CORE PLUS) PREPARE PUMPING SCHEDULE ORDER

CONDITION(S): Provided operations orders, communications plan, bulk fuel operation, listed fuel requirements, and reference.

STANDARD(S): To list fuel requirements, pumping locations, required equipment, batching schedules, and delivery times per the reference.

PERFORMANCE STEPS:

1. Review the communications plan.

2. List fuel requirements for using units.

3. Deignate locations for pumping.

4. List support personnel and equipment.

5. List batching schedules.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. TM 08922A-14/1, Installation and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.05.11 (CORE PLUS) CONDUCT DAILY INVENTORY OF BULK PETROLEUM PRODUCTS

CONDITION(S): Provided local SOP's, access to established fuel pumping site, operations orders, gauging and sampling kit, and references.

STANDARD(S): To allow the book and physical inventory to fall within allowances in local SOP's, product losses to not exceed allowable limits, and losses to be properly documented per the references.

PERFORMANCE STEPS:

1. Sign for initial receipt of fuel.

2. Establish opening inventory.

3. Measure fuel by metering or estimate gauging.

4. Tally document receipts, issues and losses on appropriate forms as directed by the references.

5. Subtract issues and losses.

6. Write both physical and book inventories.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. DOD 4140.25, Management of Bulk Petroleum Products, Storage and Distribution Facilities

2. MCO 4400.170, Control and Accountability of Petroleum and Related Products/Coals

3. NAVAIR 00-80T-109, Aircarft Refueling NATOPS Manual

4. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.05.12 (CORE PLUS) CONDUCT MONTHLY PETROLEUM PHYSICAL INVENTORY

CONDITION(S): Provided previous month's bulk petroleum book/physical inventory, issue and receipt records for the current month, and references.

STANDARD(S): To adhere to the accountability program per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Review previous month's physical book inventory and fuel on hand.

3. Calculate all fuel issued and all fuel received in the current month.

4. Balance the amount of fuel used and the amount of fuel received with the amount of fuel on hand at the beginning of the month and the end of the month.

5. Submit the completed physical inventory to the fuel officer. Calculate gains and losses and submit them to the supply officer for adjustments.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Sgt

REFERENCE(S):

1. DOD 4140.25, Management of Bulk Petroleum Products, Storage and Distribution Facilities

2. MCO 4400.170, Control and Accountability of Petroleum and Related Products/Coals

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TASK: 1391.05.13 (CORE) ADMINISTER FIRST AID FOR FUEL INGESTION/CONTACT WITH SKIN/EYES

CONDITION(S): Provided with a situation requiring first aid for fuel ingestion/contact with skin/eyes and the reference.

STANDARD(S): To immediately reduce or eliminate the risk of personal injury per the reference.

PERFORMANCE STEPS:

1. Flush eyes and/or mouth repeatedly and thoroughly with water.

2. Contact medical assistance as soon as possible.

3. Remove fuel saturated clothing and wash skin area exposed with soap and water.

4. Replace clothing with clean items.

INITIAL TRAINING SETTING: FLC Sustainment: 3 Req By: Pvt

REFERENCE(S):

1. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

TASK: 1391.05.14 (CORE PLUS) ASSIST IN PREPARING PRELIMINARY ENVIRONMENTAL ASSESSMENTS

CONDITION(S): Provided operations orders, local codes/regulations pertaining to the area of impact (if applicable), a planned fuel storage and distribution operation, SOPs, local base orders, and the references.

STANDARD(S): To meet requirements of base orders and applicable regulations per the references.

PERFORMANCE STEPS:

1. Study the operations orders.

2. Study the local codes/regulations (if applicable).

3. Review the fuel storage and distribution operation plan.

4. Conduct a site review.

5. Write the bulk fuel portion of a preliminary environmental assessment.

6. Submit bulk fuel portion of preliminary environmental assessment to appropriate higher headquarters.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. AR 200-1, Environmental Protection and Enhancement

2. NAVFAC P-908, Oil Spill Control for Inland Waters and Harbors

3. TC 5-400 W/CH #01, Unit Leader's Handbook For Environmental Stewardship

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TASK: 1391.05.15 (CORE) SUPERVISE TACTICAL FUEL SYSTEM (TFS) ELASTOMERIC SHELF/USE LIFE PROGRAM

CONDITION(S): Given a TFS which is stored at owning unit facility or TFS that is in use with elastomeric components (fabric tanks and hoses) exposed to environmental conditions and the references.

STANDARD (S): To determine required storage, packaging and preservation conditions, quantities for testing, proper identification shelf/use life status, and proper disposal procedures per the references.

PERFORMANCE STEPS:

1. Review the references.

2. Determine whether on hand TFS elastomeric components (fabric tanks and hoses) are in a shelf-life or use-life status.

3. Conduct required inspections on TFS elastomeric components in a shelf-life status to ensure items meet storage and preservation requirements and are properly marked.

4. Develop and maintain TFS elastomeric shelf/use life records.

5. Prepare and submit required shelf-life reports.

6. Determine the required test and quantity of a given batch of TFS elastomeric components in order to extend shelf-life.

7. Determine required frequency of inspection of elastomeric shelf/use life components.

8. Identify and properly dispose of expired elastomeric components.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: GySgt

REFERENCE(S):

1. ASTM D 380, Standard Test Method for Rubber Hose

2. DLAR 140.55, Reporting of Item and Packaging Discrepancies

3. DOD 4140.27-M, Shelf-Life Item Management Manual

4. MCO 4030.33, Packaging of Material

5. MCO 4140.5, USMC Shelf Life Program

6. MCO 4450.13, Joint Reg for Safeguarding Sensitive Inventory Items, Controlled Substances and Pilferable Items of Supply

7. MIL-STD 2073-1C, Standard Practice for Military Packing

8. MIL-STD-105, Sampling Procedures and Tables for Inspection by Attributes

9. MIL-STD-109, Inspection Terms and Definitions

10. MIL-STD-129, Military Standard Marking for Shipment and Storage

11. MIL-STD-2073-2B, Packaging Requirement Code

12. TM 3835-15/1, Installation, Operation, and Maintenance, Amphibious Assault Fuel System (AAFS) and Tactical Airfield Fuel Dispensing System (TAFDS)

13. TM 4700-15/1, Equipment Recording Procedures

SUMMARY/INDEX OF INDIVIDUAL TRAINING STANDARDS BY SPECIFIC CATEGORY (MOJT, DL, PST)

1. This enclosure summarizes the Individual Training Standards (ITS) according to three categories:

Appendix A: ITSs Trained via Managed On-The-Job Training (MOJT)

Appendix B: ITSs Supported by Distance Learning (DL) Products

Appendix C: ITSs Supported by Performance Support Tools (PST)

2. If no information is applicable to a category, the appendix will include a statement to that effect.

3. Format. The columns in each appendix are as follows:

a. SEQ. Sequence Number. This number dictates the order in which tasks for a given duty area are displayed.

b. TASK. ITS Designator. This is the permanent designator assigned to the task when it is created.

c. TITLE. ITS Task Title.

d. CORE. An "X" appears in this column when the task is designated as a "core" task required to "make" a Marine or qualify that Marine for the appropriate MOS. The absence of an "X" indicates that this is an advanced ("core plus") task that is mission, grade, or billet specific.

e. FLC. Functional Learning Center. An "X" appears in this column when the FLC is designated as the initial training setting. The absence of an "X" indicates that the initial training is accomplished through Managed On-The-Job Training (MOJT).

f. DL. Distance Learning (DL) Product. An "X" in this column indicates that at least one DL product is associated with this task. Consult enclosure (6) for details.

g. PST. Performance Support Tool (PST). An "X" in this column indicates that at least one PST is associated with this task. Consult enclosure (6) for details.

h. SUS. Sustainment Training Period. An entry in this column represents the number of months between evaluation or retraining by the unit to maintain the proficiency required by the standard, provided the task supports the unit’s METL.

i. REQ BY. Required By. An entry in this column depicts the lowest grade required to demonstrate proficiency in this task.

j. PAGE. Page Number. This column lists the number of the page in enclosure (6) that contains detailed information concerning this task.

INDIVIDUAL TRAINING STANDARDS TRAINED VIA MANAGED ON-THE-JOB TRAINING

This appendix includes a summary listing of all ITS tasks planned for initial Managed On-The-Job Training (MOJT). They are grouped by MOS and Duty Area.

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
		MOS 1302, ENGINEER OFFICER							
		DUTY AREA 01 - MOBILITY							
3)	1302.01.03	PLAN CONSTRUCTION OF A FORWARD OPERATING BASE (AIRFIELD/LANDING ZONE)		X		12		Capt	6-A-2
4)	1302.01.04	SUPERVISE CONSTRUCTION OF FORWARD OPERATING BASE (AIRFIELD/LANDING ZONE)				12		2ndLt	6-A-3
5)	1302.01.05	SUPERVISE REPAIR OF FORWARD OPERATING BASE (AIRFIELD/LANDING ZONE)				12		2ndLt	6-A-3
6)	1302.01.06	SUPERVISE RAPID RUNWAY REPAIR				12		2ndLt	6-A-4
8)	1302.01.08	SUPERVISE ENGINEER ASPECTS OF RIVER CROSSING OPERATIONS				12		2ndLt	6-A-6
11)	1302.01.11	SUPERVISE CONSTRUCTION OF A MEDIUM GIRDER BRIDGE				12		2ndLt	6-A-8
13)	1302.01.13	DESIGN A NONSTANDARD BRIDGE				12		Capt	6-A-9
14)	1302.01.14	SUPERVISE CONSTRUCTION OF A NONSTANDARD BRIDGE				12		2ndLt	6-A-10
15)	1302.01.15	PLAN A PIONEER ROAD				12		2ndLt	6-A-11
16)	1302.01.16	SUPERVISE CONSTRUCTION OF A PIONEER ROAD				12		2ndLt	6-A-11
17)	1302.01.17	SUPERVISE REPAIR OF A PIONEER ROAD				12		2ndLt	6-A-12
18)	1302.01.18	DESIGN A MAIN SUPPLY ROUTE				12		Capt	6-A-13
19)	1302.01.19	SUPERVISE CONSTRUCTION OF A MAIN SUPPLY ROUTE				12		Capt	6-A-13
20)	1302.01.20	SUPERVISE REPAIR OF A MAIN SUPPLY ROUTE (MSR)				12		Capt	6-A-14
22)	1302.01.22	SUPERVISE BREACHING A COMPLEX OBSTACLE				6		2ndLt	6-A-16
23)	1302.01.23	SUPERVISE CLEARING OF MINES AND BOOBY TRAPS				6		2ndLt	6-A-17
25)	1302.01.25	SUPERVISE ROUTE SWEEP OPERATIONS				12		2ndLt	6-A-18
		DUTY AREA 02 - COUNTERMOBILITY							
3)	1302.02.03	PREPARE A BARRIER PLAN				12		Capt	6-A-21
5)	1302.02.05	SUPERVISE CONSTRUCTION OF AN OBSTACLE				12		2ndLt	6-A-23
		DUTY AREA 03 - SURVIVABILITY							
4)	1302.03.04	SUPERVISE CONSTRUCTION OF SURVIVABILITY POSITIONS				12		2ndLt	6-A-27

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 04 - GENERAL ENGINEERING									
4)	1302.04.04	MANAGE CONSTRUCTION PROJECTS					12	2ndLt	6-A-30
7)	1302.04.07	SUPERVISE HORIZONTAL CONSTRUCTION OPERATION					12	2ndLt	6-A-34
9)	1302.04.09	SUPERVISE VERTICAL CONSTRUCTION OPERATION					12	2ndLt	6-A-36
12)	1302.04.12	DESIGN CONCRETE BLOCK CONSTRUCTION					12	2ndLt	6-A-37
13)	1302.04.13	SUPERVISE CONCRETE BLOCK CONSTRUCTION					12	2ndLt	6-A-38
15)	1302.04.15	SUPERVISE CONSTRUCTION OF A REINFORCED CONCRETE STRUCTURE					12	2ndLt	6-A-39
DUTY AREA 05 - TRAINING									
1)	1302.05.01	DEVELOP ENGINEER TRAINING PLAN			X		12	2ndLt	6-A-43
2)	1302.05.02	SUPERVISE UNIT TRAINING					12	2ndLt	6-A-43
DUTY AREA 09 - DEMOLITIONS									
2)	1302.09.02	SUPERVISE DEMOLITION OPERATIONS					6	2ndLt	6-A-53
5)	1302.09.05	ENGAGE TARGETS WITH EXPEDIENT DEMOLITIONS					6	2ndLt	6-A-56

MOS 1310, ENGINEER EQUIPMENT OFFICER

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 01 - MIMMS									
5)	1310.01.05	MANAGE ENGINEER EQUIPMENT AVAILABILITY					12	WO	6-B-3
DUTY AREA 04 - ENGINEER RELATED PROGRAMS									
2)	1310.04.02	MANAGE CORROSION PREVENTION AND CONTROL					12	WO	6-B-14

MOS 1316, METAL WORKER

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 01 - EQUIPMENT OPERATIONAL PROCEDURES									
4)	1316.01.04	FORGE METAL OBJECTS WITH OXYACETYLENE EQUIPMENT					12	Pvt	6-C-2
5)	1316.01.05	PERFORM METAL SURFACE HARDENING			X		6	Pvt	6-C-3
DUTY AREA 02 - OXYACETYLENE WELDING OPERATIONS									
1)	1316.02.01	WELD CAST IRON WITH OXYACETYLENE EQUIPMENT			X		6	Pvt	6-C-5
3)	1316.02.03	WELD ALLOY STEEL WITH OXYACETYLENE EQUIPMENT					6	Pvt	6-C-6
4)	1316.02.04	WELD CAST STEEL WITH OXYACETYLENE EQUIPMENT			X		6	Pvt	6-C-6

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 03 - SHIELD METAL ARC WELDING OPERATIONS									
2)	1316.03.02	WELD CAST IRON WITH SHIELDED METAL ARC WELDING EQUIPMENT				6		Pvt	6-C-9
4)	1316.03.04	WELD ALUMINUM WITH SHIELDED METAL ARC WELDING EQUIPMENT				6		Pvt	6-C-10
5)	1316.03.05	WELD STAINLESS STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT				6		Pvt	6-C-11
6)	1316.03.06	WELD CAST STEEL WITH SHIELDED METAL ARC WELDING EQUIPMENT				6		Pvt	6-C-12
8)	1316.03.08	WELD PIPE WITH ARC WELDING EQUIPMENT				12		Pvt	6-C-13
DUTY AREA 04 - GAS METAL ARC WELDING OPERATIONS									
5)	1316.04.05	WELD CAST STEEL WITH GAS METAL ARC WELDING EQUIPMENT				6		Pvt	6-C-16
6)	1316.04.06	WELD ARMOR PLATE WITH GAS METAL ARC WELDING EQUIPMENT				6		Pvt	6-C-17
DUTY AREA 05 - GAS TUNGSTEN ARC WELDING OPERATIONS									
1)	1316.05.01	WELD CARBON STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT				6		Pvt	6-C-18
2)	1316.05.02	WELD CAST IRON WITH GAS TUNGSTEN ARC WELDING EQUIPMENT				6		Pvt	6-C-18
6)	1316.05.06	WELD CAST STEEL WITH GAS TUNGSTEN ARC WELDING EQUIPMENT				6		Pvt	6-C-21
DUTY AREA 06 - WELDING SHOP OPERATIONS									
5)	1316.06.05	PERFORM SHEET METAL OPERATIONS				6		Pvt	6-C-25
6)	1316.06.06	PERFORM CORROSION PREVENTION AND CONTROL				12		Cpl	6-C-25
7)	1316.06.07	CONSTRUCT SHEET METAL OBJECTS				6		Pvt	6-C-26
8)	1316.06.08	REPAIR SHEET METAL OBJECTS		X		6		Pvt	6-C-27
DUTY AREA 07 - RADIATOR/FUEL TANKS									
1)	1316.07.01	REPAIR RADIATORS/FUEL TANKS				12		Pvt	6-C-28

MOS 1330, FACILITIES MANAGEMENT OFFICER

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 01 - PROGRAMS, PROJECTS, AND OPERATIONS									
5)	1330.01.05	ADJUST FACILITIES UTILIZATION REQUIREMENTS				12		2ndLt	6-D-3
6)	1330.01.06	ANALYZE BACK-ORDER MAINTENANCE AND REPAIR (BMAR) TO DETERMINE DISCREPANCIES				12		2ndLt	6-D-3
7)	1330.01.07	APPROVE MAINTENANCE JOB ORDERS/WORK REQUESTS				12		2ndLt	6-D-4
8)	1330.01.08	CERTIFY FUNDING OF UTILITY BILLS				12		2ndLt	6-D-4
9)	1330.01.09	COORDINATE BEQ/BOQ TEMPORARY HOUSING EFFORTS				12		2ndLt	6-D-5

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
10)	1330.01.10	DEVELOP FACILITIES MAINTENANCE INDUSTRIAL HYGIENE PROGRAM					12	2ndLt	6-D-5
11)	1330.01.11	DEVELOP FACILITIES CONSTRUCTION TIME PHASING PLAN					12	2ndLt	6-D-6
12)	1330.01.12	DEVELOP MAJOR FACILITIES REPAIR PROJECTS					12	2ndLt	6-D-7
13)	1330.01.13	ESTABLISH AN ENCROACHMENT CONTROL PROGRAM					12	2ndLt	6-D-7
14)	1330.01.14	ESTABLISH ENERGY CONSERVATION PROGRAM					12	2ndLt	6-D-8
15)	1330.01.15	ESTABLISH LOCAL FACILITIES MAINTENANCE SELF-HELP POLICIES AND PROCEDURES					12	2ndLt	6-D-8
16)	1330.01.16	EVALUATE FACILITIES UTILIZATION POLICIES					12	2ndLt	6-D-9
17)	1330.01.17	PERFORM A FACILITIES ACCEPTANCE INSPECTION					12	2ndLt	6-D-10
18)	1330.01.18	PREPARE BUDGET ESTIMATES FOR FACILITIES MAINTENANCE TASKS,REPAIR TASKS, AND FACILITIES OPERATION					12	2ndLt	6-D-10
19)	1330.01.19	RECONCILE FACILITIES SUPPORT REQUIREMENT UPANCY (FSR) OCC NUMBERS WITH FAMILY HOUSING SURVEY OCCUPANCY NUMBERS					12	2ndLt	6-D-11
20)	1330.01.20	REVIEW THE BACHELOR HOUSING REPORT					12	2ndLt	6-D-11
21)	1330.01.21	SUPERVISE PERSONNEL PERFORMING FACILITIES MAINTENANCE, REPAIR, OR MINOR CONSTRUCTION DUTIES					12	2ndLt	6-D-12
22)	1330.01.22	TRANSLATE FACILITIES SUPPORT REQUIREMENT ASIC (FSR) INTO B FACILITIES REQUIREMENT LIST (BFRL)					12	2ndLt	6-D-12
23)	1330.01.23	RECOMMEND BASIC FACILITIES REQUIREMENT LIST (BFRL) CHANGES					12	2ndLt	6-D-13
24)	1330.01.24	RECOMMEND A FACILITIES DESIGN CHANGE					12	2ndLt	6-D-13
25)	1330.01.25	RECOMMEND FACILITIES MANAGEMENT PROCEDURE CHANGES					12	2ndLt	6-D-14
26)	1330.01.26	RECOMMEND MINOR CONSTRUCTION PROJECT PRIORITIES					12	2ndLt	6-D-15
27)	1330.01.27	ANALYZE AN ENVIRONMENTAL IMPACT ISSUE					12	2ndLt	6-D-15
28)	1330.01.28	ANALYZE FAMILY HOUSING INCIDENTS FOR FACILITIES ACTION					12	2ndLt	6-D-16
29)	1330.01.29	CONDUCT FACILITIES ALLOCATION STUDY					12	2ndLt	6-D-16
30)	1330.01.30	RECOMMEND NEW BUILDING SITE LOCATION					12	2ndLt	6-D-17
31)	1330.01.31	MANAGE HAZARDOUS WASTE CLEANUP AND DISPOSAL PROGRAM					12	2ndLt	6-D-17
32)	1330.01.32	VERIFY MAINTAINABILITY OF FACILITIES DESIGNS					12	2ndLt	6-D-18

MOS 1341, ENGINEER EQUIPMENT MECHANIC

DUTY AREA 01 - NON-EQUIPMENT OPERATIONAL PROCEDURES

1)	1341.01.01	COMPLETE EQUIPMENT REPAIR ORDER (ERO) AND EQUIPMENT REPAIR ORDER SHOPPING LIST (EROSL)			X		12	Pvt	6-E-1

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
2)	1341.01.02	COMPLETE THE WORKSHEET FOR PREVENTIVE MAINTENANCE AND TECHNICAL INSPECTION FOR ENGINEER EQUIPMENT (NAVMC 10560)				12		Pvt	6-E-1
		DUTY AREA 03 - CORRECTIVE MAINTENANCE							
10)	1341.03.10	REPAIR CHAIN SAW				12		Cpl	6-E-12
		DUTY AREA 04 - EQUIPMENT OPERATIONAL PROCEDURES							
1)	1341.04.01	PERFORM EQUIPMENT OPERATIONAL PROCEDURES				12		Pvt	6-E-16
2)	1341.04.02	REPLACE CUTTING EDGE/TEETH ON ENGINEER EQUIPMENT				12		Pvt	6-E-16
		DUTY AREA 05 - RECORDS							
1)	1341.05.01	COMPLETE COMMODITY MANAGER'S MODIFICATION CONTROL RECORD				12		Cpl	6-E-17

MOS 1342, SMALL CRAFT MECHANIC

There are no MOJT tasks assigned to any duty areas within this MOS.

MOS 1345, ENGINEER EQUIPMENT OPERATOR

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
		DUTY AREA 02 - EQUIPMENT OPERATIONAL PROCEDURES							
7)	1345.02.07	OPERATE RUNWAY SWEEPER IN SUPPORT OF ENGINEER OPERATIONS				12		Pvt	6-G-11
12)	1345.02.12	OPERATE 420C VIBRATORY COMPACTOR IN SUPPORT OF ENGINEER OPERATIONS				3		Pvt	6-G-14
14)	1345.02.14	OPERATE MC1155 TRACTOR IN SUPPORT OF ENGINEER OPERATIONS				12		Cpl	6-G-16
16)	1345.02.16	OPERATE M9 ACE TRACTOR IN SUPPORT OF ENGINEER OPERATIONS				12		Cpl	6-G-18
		DUTY AREA 03 - NON-OPERATIONAL PROCEDURES							
1)	1345.03.01	PERFORM CORROSION PREVENTION AND CONTROL				12		Pvt	6-G-20
3)	1345.03.03	CONDUCT INVENTORY OF TOOL SETS, CHESTS, AND KITS				12		Pvt	6-G-21
		DUTY AREA 04 - PREVENTIVE MAINTENANCE							
2)	1345.04.02	ASSIST IN PERFORMING ENGINEER EQUIPMENT LIMITED TECHNICAL INSPECTION (LTI)				12		Pvt	6-G-22
		DUTY AREA 05 - CORRECTIVE MAINTENANCE							
1)	1345.05.01	ASSIST IN REPLACING CUTTING EDGES/TEETH ON APPLICABLE ENGINEER EQUIPMENT				12		Pvt	6-G-24

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
		MOS 1349, ENGINEER EQUIPMENT CHIEF							
		DUTY AREA 01 - NON-EQUIPMENT OPERATIONAL PROCEDURES							
5)	1349.01.05	SUPERVISE ENGINEER EQUIPMENT AVAILABILITY						12 GySgt	6-H-3
		DUTY AREA 03 - PROGRAMS							
2)	1349.03.02	SUPERVISE EQUIPMENT RECOVERY OPERATIONS						12 GySgt	6-H-10
		MOS 1361, ENGINEER ASSISTANT							
		DUTY AREA 04 - MAINTENANCE ADMINISTRATION							
1)	1361.04.01	MAINTAIN MIMMS PROGRAM			X			3 SSgt	6-I-13
2)	1361.04.02	ANALYZE MAINTENANCE MANAGEMENT RECORDS			X			3 SSgt	6-I-13
		DUTY AREA 05 - SUPERVISORY FUNCTIONS							
1)	1361.05.01	SUPERVISE MOS TRAINING PROGRAM						6 GySgt	6-I-15
2)	1361.05.02	SUPERVISE MAINTENANCE ADMINISTRATION			X			6 GySgt	6-I-15
3)	1361.05.03	SUPERVISE EQUIPMENT RECORDS						6 GySgt	6-I-16
4)	1361.05.04	SUPERVISE PUBLICATIONS RESOURCES						3 SSgt	6-I-16
		MOS 1371, COMBAT ENGINEER							
		DUTY AREA 01 - GENERAL ENGINEERING							
6)	1371.01.06	DETERMINE REQUIRED CONCRETE MIXTUR						12 SSgt	6-J-3
10)	1371.01.10	DESIGN CONCRETE FORMS						6 Cpl	6-J-6
16)	1371.01.16	EMPLOY CONSTRUCTION SHOP COMPONENTS SET						6 Sgt	6-J-9
17)	1371.01.17	ESTIMATE REQUIREMENTS FOR ENGINEER OPERATIONS						6 SSgt	6-J-9
18)	1371.01.18	PLAN A BASE CAMP						12 GySgt	6-J-10
19)	1371.01.19	REQUISITION REQUIRED MATERIALS						12 Cpl	6-J-11
20)	1371.01.20	ESTABLISH PROJECT/OPERATION SCHEDULES						6 GySgt	6-J-11
		DUTY AREA 02 - MOBILITY							
1)	1371.02.01	INSTALL A MEDIUM GIRDER BRIDGE						12 Sgt	6-J-12
2)	1371.02.02	MANEUVER A STANDARD MILITARY RAFT						12 Sgt	6-J-12
3)	1371.02.03	INSTALL RIBBON BRIDGE						6 Sgt	6-J-13
11)	1371.02.11	CONDUCT ENGINEER RECONNAISSANCE PATROL			X			12 Cpl	6-J-19
13)	1371.02.13	CONSTRUCT TACTICAL LANDING ZONE (TLZ)						6 Cpl	6-J-21
14)	1371.02.14	REPAIR DAMAGED AIRFIELDS						6 Sgt	6-J-21
15)	1371.02.15	ASSEMBLE PREFABRICATED STRUCTURES						12 PFC	6-J-22
23)	1371.02.23	EMPLOY A BALLISTIC DISK						12 Sgt	6-J-30
26)	1371.02.26	CONSTRUCT EXPEDIENT DRAINAGE STRUCTURES						6 Cpl	6-J-32

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 03 - COUNTERMOBILITY									
5)	1371.03.05	CREATE CRATERS AND DITCHES USING EXPLOSIVES					6	PFC	6-J-38
DUTY AREA 04 - SURVIVABILITY									
3)	1371.04.03	CAMOUFLAGE POSITIONS, VEHICLES, OR EQUIPMENT WITH LIGHTWEIGHT SCREENING SYSTEM					12	PFC	6-J-47
DUTY AREA 06 - STAFF ADVISOR									
2)	1371.06.02	EVALUATE ENGINEER SITUATION REPORTS					12	GySgt	6-J-51
DUTY AREA 07 - PROJECTS AND OPERATIONS									
3)	1371.07.03	ESTABLISH OPERATIONS CENTER					12	MSgt	6-J-57
5)	1371.07.05	ADMINISTER FACILITY MAINTENANCE PROGRAM					12	GySgt	6-J-58
6)	1371.07.06	SUPERVISE ENGINEER OPERATIONS					12	Cpl	6-J-58

MOS 1390, BULK FUEL OFFICER

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
DUTY AREA 01 - PROGRAMS, PROJECTS, AND OPERATIONS									
1)	1390.01.01	DEVELOP BULK FUEL SITE REAR AREA SECURITY PLAN					12	WO	6-K-1
2)	1390.01.02	MANAGE BULK FUEL SITE CONSTRUCTION /INSTALLATION					12	WO	6-K-1
5)	1390.01.05	MANAGE FUEL EQUIPMENT AND FUEL					12	WO	6-K-3
8)	1390.01.08	CONDUCT SAFETY INSPECTIONS					12	WO	6-K-5
10)	1390.01.10	IMPLEMENT ENGINEER MAINTENANCE MANAGEMENT PROGRAM					12	WO	6-K-6
12)	1390.01.12	SUPERVISE FUEL SYSTEM COMMUNICATIONS PLAN					12	WO	6-K-7
16)	1390.01.16	DETERMINE OTHER SERVICES' FUEL REQUIREMENTS					12	WO	6-K-10
23)	1390.01.23	MONITOR CORROSION AND DETERIORATION CONTROL					12	WO	6-K-15
DUTY AREA 02 - STAFF FUNCTIONS									
4)	1390.02.04	DETERMINE/REGISTER BULK FUEL PREPOSITIONED WAR RESERVE MATERIEL REQUIREMENT (PWRMR) WITH APPROPRIATE COMMANDER IN CHIEF (CINC)					12	CWO2	6-K-19
DUTY AREA 03 - NON-EQUIPMENT OPERATIONAL PROCEDURES									
3)	1390.03.03	ENFORCE ENVIRONMENTAL CONTROL AND FIRE REGULATIONS					12	WO	6-K-21
4)	1390.03.04	MANAGE PROCEDURES REQUIRED TO CHANGE PRODUCT TYPES					12	WO	6-K-21

SEQ	TASK	TITLE	CORE	FLC	DL	PST	SUS	REQ BY	PAGE
5)	1390.03.05	MONITOR PUMP SCHEDULED PREVENTIVE MAINTENANCE					12	WO	6-K-22
11)	1390.03.11	DETERMINE SOURCE OF SUPPLY					12	WO	6-K-25

DUTY AREA 04 - TRAINING PROGRAMS

1)	1390.04.01	MANAGE MOS TRAINING PROGRAM					12	WO	6-K-27

MOS 1391, BULK FUEL SPECIALIST

DUTY AREA 05 - CORRECTIVE MAINTENANCE

4)	1391.05.04	DETERMINE SOURCE OF SUPPLY					12	Sgt	6-L-31

INDIVIDUAL TRAINING STANDARDS SUPPORTED BY DISTANCE LEARNING PRODUCTS

There are no Distance Learning Products assigned to any tasks in this order.

Appendix B to
ENCLOSURE (7)

INDIVIDUAL TRAINING STANDARDS SUPPORTED BY PERFORMANCE SUPPORT TOOLS

There are no performance support tools assigned to any tasks in this order.