DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
3000 MARINE CORPS PENTAGON
WASHINGTON, DC 20350-3000

NAVMC 3500.33
C 469
26 Oct 07

NAVMC 3500.33

From: Commandant of the Marine Corps
To: Distribution List

Subj: GROUND ORDNANCE MAINTENANCE TRAINING AND READINESS MANUAL, (SHORT TITLE: GROUND ORD MAINT T&R MANUAL)

Ref: (a) MCO P3500.72A
(b) MCO 1553.3A
(c) MCO 3400.3F
(d) MCO 3500.27B W/Erratum
(e) MCRP 3-0A
(f) MCRP 3-0B
(g) MCO 1553.2A

1. Purpose. Per reference (a), this T&R Manual establishes Core Capability Mission Essential Tasks (METs) for readiness reporting and required events for standardization training of Marines and Navy personnel in Occupational Field (OccFld) 21, Ground Ordnance Maintenance. Additionally, it provides tasking for formal schools preparing personnel for service in OccFld 21. This NAVMC supersedes NAVMC Directive 3500.77.

2. Scope

a. The Core Capability Mission Essential Task List (METL) in this manual is used in Defense Readiness Reporting System (DRRS) for the assessment and reporting of unit readiness. Units achieve training readiness for reporting in DRRS by gaining and sustaining proficiency in the training events in this manual at both collective (unit) and individual levels.

b. Per reference (b), commanders will conduct an internal assessment of the unit’s ability to execute each MET, and develop long-, mid-, and short-range training plans to sustain proficiency in each MET. Training plans will incorporate these events to standardize training and provide objective assessment of progress toward attaining combat readiness. Commanders will keep records at the unit and individual levels to record training achievements, identify training gaps, and document objective assessments of readiness associated with training Marines. Commanders will use reference (c) to incorporate nuclear, biological, and chemical defense training into training plans and reference (d) to integrate operational risk management. References (e) and (f) provide amplifying information for effective planning and management of training within the unit.

c. Formal school and training detachment commanders will use references (a) and (g) to ensure programs of instruction meet skill training requirements established in this manual, and provide career-progression

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training in the events designated for initial training in the formal school environment.

3. Information. CG, TECOM will update this T&R Manual as necessary to provide current and relevant training standards to commanders, and to ensure a current Core Capabilities METL is available for use in DRRS. All questions pertaining to the Marine Corps Ground T&R Program and Unit Training Management should be directed to: Commanding General, TECOM (Ground Training Branch C 469), 1019 Elliot Road, Quantico, VA 22134.

4. Command. This Directive is applicable to the Marine Corps Total Force.

5. Certification. Reviewed and approved this date.

GEORGE J. FLYNN
By direction

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GROUND ORD MAINT T&R MANUAL

TABLE OF CONTENTS

CHAPTER

1 . . . . . OVERVIEW

2 . . . . . MISSION ESSENTIAL TASKS MATRIX

3 . . . . . COLLECTIVE EVENTS

4 . . . . . MOS 2102 INDIVIDUAL EVENTS

5 . . . . . MOS 2110 INDIVIDUAL EVENTS

6 . . . . . MOS 2111 INDIVIDUAL EVENTS

7 . . . . . MOS 2112 INDIVIDUAL EVENTS

8 . . . . . MOS 2120 INDIVIDUAL EVENTS

9 . . . . . MOS 2125 INDIVIDUAL EVENTS

10. . . . . MOS 2131 INDIVIDUAL EVENTS

11. . . . . MOS 2141 INDIVIDUAL EVENTS

12. . . . . MOS 2146 INDIVIDUAL EVENTS

13. . . . . MOS 2147 INDIVIDUAL EVENTS

14. . . . . MOS 2149 INDIVIDUAL EVENTS

15. . . . . MOS 2161 INDIVIDUAL EVENTS

16. . . . . MOS 2171 INDIVIDUAL EVENTS

17. . . . . MOS 2181 INDIVIDUAL EVENTS

APPENDIX

A . . . . . REFERENCES

GROUND ORD MAINT T&R MANUAL

CHAPTER 1

OVERVIEW

	PARAGRAPH	PAGE
INTRODUCTION.	1000	1-2
UNIT TRAINING	1001	1-2
UNIT TRAINING MANAGEMENT.	1002	1-3
SUSTAINMENT AND EVALUATION OF TRAINING.	1003	1-3
ORGANIZATION.	1004	1-4
T&R EVENT CODING.	1005	1-4
COMBAT READINESS PERCENTAGE.	1006	1-5
EVALUATION-CODED (E-CODED) EVENTS	1007	1-6
CRP CALCULATION	1008	1-6
T&R EVENT COMPOSITION	1009	1-7
CBRNE TRAINING.	1010	1-9
NIGHT TRAINING.	1011	1-10
OPERATIONAL RISK MANAGEMENT (ORM)	1012	1-10
APPLICATION OF SIMULATION	1013	1-10
MARINE CORPS GROUND T&R PROGRAM	1014	1-11

CHAPTER 1

OVERVIEW

1000. INTRODUCTION

1. The T&R Program is the Corps' primary tool for planning, conducting and evaluating training, and assessing training readiness. Subject matter experts (SMEs) from the operating forces developed core capability Mission Essential Task Lists (METLs) for ground communities derived from the Marine Corps Task List (MCTL). T&R manuals are built around these METLs and all events contained in T&R manuals relate directly to this METL. This comprehensive T&R Program will help to ensure the Marine Corps continues to improve its combat readiness by training more efficiently and effectively. Ultimately, this will enhance the Marine Corps' ability to accomplish real-world missions.

2. The T&R Manual contains the individual and collective training requirements to prepare units to accomplish their combat mission. The T&R Manual is not intended to be an encyclopedia that contains every minute detail of how to accomplish training. Instead, it identifies the minimum standards that Marines must be able to perform in combat. The T&R Manual is a fundamental tool for commanders to build and maintain unit combat readiness. Using this tool, leaders can construct and execute an effective training plan that supports the unit's METL. More detailed information on the Marine Corps Ground T&R Program is found in reference (a).

1001. UNIT TRAINING

1. The training of Marines to perform as an integrated unit in combat lies at the heart of the T&R program. Unit and individual readiness are directly related. Individual training and the mastery of individual core skills serve as the building blocks for unit combat readiness. A Marine's ability to perform critical skills required in combat is essential. However, it is not necessary to have all individuals within a unit fully trained in order for that organization to accomplish its assigned tasks. Manpower shortfalls, temporary assignments, leave, or other factors outside the commander's control, often affect the ability to conduct individual training. During these periods, unit readiness is enhanced if emphasis is placed on the individual training of Marines on-hand. Subsequently, these Marines will be mission ready and capable of executing as part of a team when the full complement of personnel is available.

2. Commanders will ensure that all tactical training is focused on their combat mission. The T&R Manual is a tool to help develop the unit's training plan. In most cases, unit training should focus on achieving unit proficiency in the core capabilities METL. However, commanders will adjust their training focus to support METLs associated with a major OPLAN/CONPLAN or named operation as designated by their higher commander and reported accordingly in the Defense Readiness Reporting System (DRRS). Tactical

training will support the METL in use by the commander and be tailored to meet T&R standards. Commanders at all levels are responsible for effective combat training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be over emphasized.

3. Commanders will provide personnel the opportunity to attend formal and operational level courses of instruction as required by this Manual. Attendance at all formal courses must enhance the warfighting capabilities of the unit as determined by the unit commander.

1002. UNIT TRAINING MANAGEMENT

1. Unit Training Management (UTM) is the application of the Systems Approach to Training (SAT) and the Marine Corps Training Principles. This is accomplished in a manner that maximizes training results and focuses the training priorities of the unit in preparation for the conduct of its wartime mission.

2. UTM techniques, described in references (b) and (e), provide commanders with the requisite tools and techniques to analyze, design, develop, implement, and evaluate the training of their unit. The Marine Corps Training Principles, explained in reference (b), provide sound and proven direction and are flexible enough to accommodate the demands of local conditions. These principles are not inclusive, nor do they guarantee success. They are guides that commanders can use to manage unit-training programs. The Marine Corps training principles are:

- Train as you fight
- Make commanders responsible for training
- Use standards-based training
- Use performance-oriented training
- Use mission-oriented training
- Train the MAGTF to fight as a combined arms team
- Train to sustain proficiency
- Train to challenge

3. To maintain an efficient and effective training program, leaders at every level must understand and implement UTM. Guidance for UTM and the process for establishing effective programs are contained in references (a) through (g).

1003. SUSTAINMENT AND EVALUATION OF TRAINING

1. The evaluation of training is necessary to properly prepare Marines for combat. Evaluations are either formal or informal, and performed by members of the unit (internal evaluation) or from an external command (external evaluation).

2. Marines are expected to maintain proficiency in the training events for their MOS at the appropriate grade or billet to which assigned. Leaders are responsible for recording the training achievements of their Marines. Whether it involves individual or collective training events, they must ensure proficiency is sustained by requiring retraining of each event at or

before expiration of the designated sustainment interval. Performance of the training event, however, is not sufficient to ensure combat readiness. Leaders at all levels must evaluate the performance of their Marines and the unit as they complete training events, and only record successful accomplishment of training based upon the evaluation. The goal of evaluation is to ensure that correct methods are employed to achieve the desired standard, or the Marines understand how they need to improve in order to attain the standard. Leaders must determine whether credit for completing a training event is recorded if the standard was not achieved. While successful accomplishment is desired, debriefing of errors can result in successful learning that will allow ethical recording of training event completion. Evaluation is a continuous process that is integral to training management and is conducted by leaders at every level and during all phases of planning and the conduct of training. To ensure training is efficient and effective, evaluation is an integral part of the training plan. Ultimately, leaders remain responsible for determining if the training was effective.

3. The purpose of formal and informal evaluation is to provide commanders with a process to determine a unit's/Marine's proficiency in the tasks that must be performed in combat. Informal evaluations are conducted during every training evolution. Formal evaluations are often scenario-based, focused on the unit's METs, based on collective training standards, and usually conducted during higher-level collective events. References (a) and (f) provide further guidance on the conduct of informal and formal evaluations using the Marine Corps Ground T&R Program.

1004. ORGANIZATION

1. The Ground Ordnance Maintenance T&R Manual is community-based, written to support Occupational Field 21. The manual is not intended, nor should it be used as a stand-alone document. The manual is organized in three major areas.

a. Chapter 1 is an overview of the Marine Corps's Training and Readiness program. It consists of elements common to all MOSs that are pertinent to successful implementation of a Training and Readiness program. Chapter 1 also outlines the organization and key elements of the Ground Ordnance Maintenance T&R Manual, with an explanation of each key element.

b. Chapters 2 and 3 consist of the Mission Essential Tasks and collective training events for the Ground Ordnance Maintenance Community. Collective training events are arranged by event code, which includes the Community (ORDM), a Functional/Duty area which indicates the appropriate supported MET, and a Level/Sequence number.

c. Chapters 4 through 17 consist of the Individual Training Events, arranged by MOS/EVENT CODE. Indexes of events precede each chapter for easy reference.

1005. T&R EVENT CODING

1. T&R events are coded for ease of reference. Each event has a 4-4-4-digit identifier. The first four digits are referred to as a "community" and

represent the unit type or occupation (ORDM, 2146, etc.). The second four digits represent the functional or duty area (ADMN, CSSO, SCTY, etc.). The last four digits represent the level and sequence of the event.

2. The T&R levels are illustrated in Figure 1. An example of the T&R coding used in this Manual is shown in Figure 2.

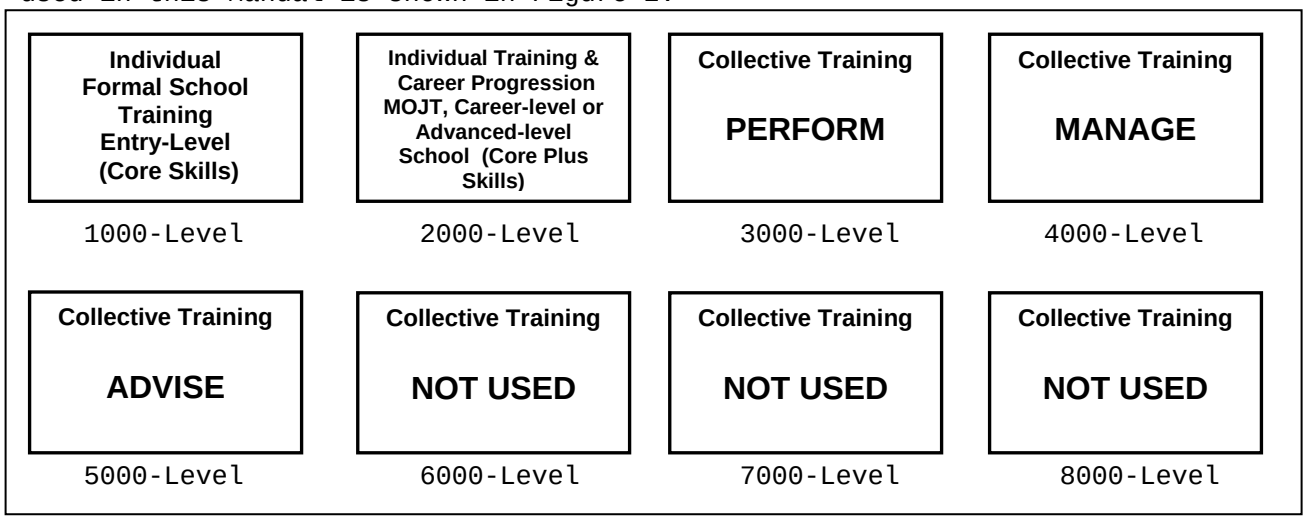

Figure 1: T&R Event Levels

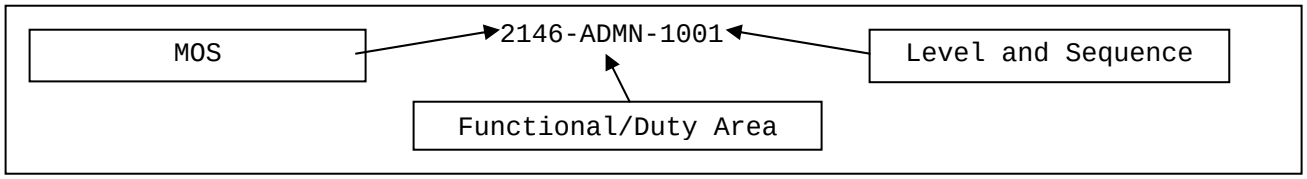

Figure 2: T&R Event Coding

1006. COMBAT READINESS PERCENTAGE

1. The Marine Corps Ground T&R Program includes processes to assess readiness of units and individual Marines. Every unit in the Marine Corps maintains a basic level of readiness based on the training and experience of the Marines in the unit. Even units that never trained together are capable of accomplishing some portion of their missions. Combat readiness assessment does not associate a quantitative value for this baseline of readiness, but uses a “Combat Readiness Percentage”, as a method to provide a concise descriptor of the recent training accomplishments of units and Marines.

2. Combat Readiness Percentage (CRP) is the percentage of required training events that a unit or Marine accomplishes within specified sustainment intervals.

3. In unit-based T&R Manuals, unit combat readiness is assessed as a percentage of the successfully completed and current (within sustainment interval) key training events called “Evaluation-Coded” (E-Coded) Events. E-Coded Events and unit CRP calculation are described in follow-on paragraphs.

CRP achieved through the completion of E-Coded Events is directly relevant to readiness assessment in DRRS.

4. Individual combat readiness, in both unit-based and community-based T&R Manuals, is assessed as the percentage of required individual events in which a Marine is current. This translates as the percentage of training events for his/her MOS and grade (or billet) that the Marine successfully completes within the directed sustainment interval. Individual skills are developed through a combination of 1000-level training (entry-level formal school courses), individual on-the-job training in 2000-level events, and follow-on formal school training. Skill proficiency is maintained by retraining in each event per the specified sustainment interval.

1007. EVALUATION-CODED (E-CODED) EVENTS

1. Unit-type T&R Manuals can contain numerous unit events, some for the whole unit and others for integral parts that serve as building blocks for training. To simplify training management and readiness assessment, only collective events that are critical components of a mission essential task (MET), or key indicators of a unit’s readiness, are used to generate CRP for a MET. These critical or key events are designated in the T&R Manual as Evaluation-Coded (E-Coded) events. Formal evaluation of unit performance in these events is recommended because of their value in assessing combat readiness. Only E-Coded events are used to calculate CRP for each MET.

2. The use of a METL-based training program allows the commander discretion in training. This makes the T&R Manual a training tool rather than a prescriptive checklist.

1008. CRP CALCULATION

1. Collective training begins at the 3000 level (team, crew or equivalent). Unit training plans are designed to accomplish the events that support the unit METL while simultaneously sustaining proficiency in individual core skills. Using the battalion-based (unit) model, the battalion (7000-level) has collective events that directly support a MET on the METL. These collective events are E-Coded and the only events that contribute to unit CRP. This is done to assist commanders in prioritizing the training toward the METL, taking into account resource, time, and personnel constraints.

2. Unit CRP increases after the completion of E-Coded events. The number of E-Coded events for the MET determines the value of each E-Coded event. For example, if there are 4 E-Coded events for a MET, each is worth 25% of MET CRP. MET CRP is calculated by adding the percentage of each completed and current (within sustainment interval) E-Coded training event. The percentage for each MET is calculated the same way and all are added together and divided by the number of METS to determine unit CRP. For ease of calculation, we will say that each MET has 4 E-Coded events, each contributing 25% towards the completion of the MET. If the unit has completed and is current on three of the four E-Coded events for a given MET, then they have completed 75% of the MET. The CRP for each MET is added together and divided by the number of METS to get unit CRP; unit CRP is the average of MET CRP.

For Example:

MET 1: 75% complete (3 of 4 E-Coded events trained)
MET 2: 100% complete (6 of 6 E-Coded events trained)
MET 3: 25% complete (1 of 4 E-Coded events trained)
MET 4: 50% complete (2 of 4 E-Coded events trained)
MET 5: 75% complete (3 of 4 E-Coded events trained)

To get unit CRP, simply add the CRP for each MET and divide by the number of METS:

MET CRP: 75 + 100 + 25 + 50 + 75 = 325

Unit CRP: 325 (total MET CRP)/ 5 (total number of METS) = 65%

1009. T&R EVENT COMPOSITION

1. This section explains each of the components of a T&R event. These items are included in all events in each T&R manual.

a. Event Code (see Sect 1006). The event code is a 4-4-4 character set. For individual training events, the first 4 characters indicate the occupational field. The second 4 characters indicate functional area (ADMN, SCTY, CSSO, MAIN, etc.). The third 4 characters represents the level at which the task is performed and a sequence number for the event.

b. Event Title. The event title is the name of the event.

c. E-Coded. This is a “yes/no” category to indicate whether or not the event is E-Coded. If yes, the event contributes toward the CRP of the associated MET. The value of each E-Coded event is based on number of E-Coded events for that MET. Refer to paragraph 1008 for detailed explanation of E-Coded events.

d. Supported MET(s). List all METs that are supported by the training event.

e. Sustainment Interval. This is the period, expressed in number of months, between evaluation or retraining requirements. Skills and capabilities acquired through the accomplishment of training events are refreshed at pre-determined intervals. It is essential that these intervals are adhered to in order to ensure Marines maintain proficiency.

f. Billet. Individual training events may contain a list of billets within the community that are responsible for performing that event. This ensures that the billet’s expected tasks are clearly articulated and a Marine’s readiness to perform in that billet is measured.

g. Grade. Each individual training event will list the rank(s) at which Marines are required to learn and sustain the training event.

h. Initial Training Setting. For Individual T&R Events only, this specifies the location for initial instruction of the training event in one of three categories (formal school, managed on-the-job training, distance

learning). Regardless of the specified Initial Training Setting, any T&R event may be introduced and evaluated during managed on-the-job training.

(1) “FORMAL” – When the Initial Training Setting of an event is identified as “FORMAL” (formal school), the appropriate formal school or training detachment is required to provide initial training in the event. Conversely, formal schools and training detachments are not authorized to provide training in events designated as Initial Training Setting “MOJT” or “DL.” Since the duration of formal school training must be constrained to optimize Operating Forces’ manning, this element provides the mechanism for Operating Forces’ prioritization of training requirements for both entry-level (1000-level) and career-level (2000-level) T&R Events. For formal schools and training detachments, this element defines the requirements for content of courses.

(2) “DL” – Identifies the training event as a candidate for initial training via a Distance Learning product (correspondence course or MarineNet course).

(3) “MOJT” – Events specified for Managed On-the-Job Training are to be introduced to Marines, and evaluated, as part of training within a unit by supervisory personnel.

i. Event Description. Provide a description of the event purpose, objectives, goals, and requirements. It is a general description of an action requiring learned skills and knowledge (e.g. Camouflage the M1A1 Tank).

j. Condition. Describe the condition(s), under which tasks are performed. Conditions are based on a “real world” operational environment. They indicate what is provided (equipment, materials, manuals, aids, etc.), environmental constraints, conditions under which the task is performed, and any specific cues or indicators to which the performer must respond. When resources or safety requirements limit the conditions, this is stated.

k. Standard. The standard indicates the basis for judging effectiveness of the performance. It consists of a carefully worded statement that identifies the proficiency level expected when the task is performed. The standard provides the minimum acceptable performance parameters and is strictly adhered to. The standard for collective events is general, describing the desired end-state or purpose of the event. While the standard for individual events specifically describe to what proficiency level in terms of accuracy, speed, sequencing, quality of performance, adherence to procedural guidelines, etc., the event is accomplished.

l. Event Components. Describe the actions composing the event and help the user determine what must be accomplished and to properly plan for the event.

m. Prerequisite Events. Prerequisites are academic training or other T&R events that must be completed prior to attempting the task. They are lower-level events or tasks that give the individual/unit the skills required to accomplish the event. They can also be planning steps, administrative requirements, or specific parameters that build toward mission accomplishment.

n. Chained Events. Collective T&R events are supported by lower-level collective and individual T&R events. This enables unit leaders to effectively identify subordinate T&R events that ultimately support specific mission essential tasks. When the accomplishment of any upper-level events, by their nature, result in the performance of certain subordinate and related events, the events are "chained." The completion of chained events will update sustainment interval credit (and CRP for E-Coded events) for the related subordinate level events.

o. Related Events. Provide a list of all Individual Training Standards that support the event.

p. References. The training references are utilized to determine task performance steps, grading criteria, and ensure standardization of training procedures. They assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion. References are also important to the development of detailed training plans.

q. Distance Learning Products (IMI, CBT, MCI, etc.). Include this component when the event can be taught via one of these media methods vice attending a formal course of instruction or receiving MOJT.

r. Support Requirements. This is a list of the external and internal support the unit and Marines will need to complete the event. The list includes, but is not limited to:

- Range(s)/Training Area
- Ordnance
- Equipment
- Materials
- Other Units/Personnel
- Other Support Requirements

s. Miscellaneous. Provide any additional information that assists in the planning and execution of the event. Miscellaneous information may include, but is not limited to:

- Admin Instructions
- Special Personnel Certifications
- Equipment Operating Hours
- Road Miles

2. Community-based T&R manuals have several additional components not found in unit-based T&R manuals. These additions do not apply to this T&R Manual.

1010. CBRNE TRAINING

1. All personnel assigned to the operating force must be trained in chemical, biological, radiological, nuclear, and explosive incident defense (CBRNE), in order to survive and continue their mission in this environment. Individual proficiency standards are defined as survival and basic operating standards. Survival standards are those that the individual must master in order to survive CBRNE attacks. Basic operating standards are those that the

individual, and collectively the unit, must perform to continue operations in a CBRNE environment.

2. In order to develop and maintain the ability to operate in an CBRNE environment, CBRNE training is an integral part of the training plan and events in this T&R Manual. Units should train under CBRNE conditions whenever possible. Per reference (c), all units must be capable of accomplishing their assigned mission in a contaminated environment.

1011. NIGHT TRAINING

1. While it is understood that all personnel and units of the operating force are capable of performing their assigned mission in “every climate and place,” current doctrine emphasizes the requirement to perform assigned missions at night and during periods of limited visibility. Basic skills are significantly more difficult when visibility is limited.

2. To ensure units are capable of accomplishing their mission they must train under the conditions of limited visibility. Units should strive to conduct all events in this T&R Manual during both day and night/limited visibility conditions. When there is limited training time available, night training should take precedence over daylight training, contingent on individual, crew, and unit proficiency.

1012. OPERATIONAL RISK MANAGEMENT (ORM)

1. ORM is a process that enables commanders to plan for and minimize risk while still accomplishing the mission. It is a decision making tool used by Marines at all levels to increase operational effectiveness by anticipating hazards and reducing the potential for loss, thereby increasing the probability of a successful mission. ORM minimizes risks to acceptable levels, commensurate with mission accomplishment.

2. Commanders, leaders, maintainers, planners, and schedulers will integrate risk assessment in the decision-making process and implement hazard controls to reduce risk to acceptable levels. Applying the ORM process will reduce mishaps, lower costs, and provide for more efficient use of resources. ORM assists the commander in conserving lives and resources and avoiding unnecessary risk, making an informed decision to implement a course of action (COA), identifying feasible and effective control measures where specific measures do not exist, and providing reasonable alternatives for mission accomplishment. Most importantly, ORM assists the commander in determining the balance between training realism and unnecessary risks in training, the impact of training operations on the environment, and the adjustment of training plans to fit the level of proficiency and experience of Sailors/Marines and leaders. Further guidance for ORM is found in references (b) and (d).

1013. APPLICATION OF SIMULATION

1. Simulations/Simulators and other training devices shall be used when they are capable of effectively and economically supplementing training on the

identified training task. Particular emphasis shall be placed on simulators that provide training that might be limited by safety considerations or constraints on training space, time, or other resources. When deciding on simulation issues, the primary consideration shall be improving the quality of training and consequently the state of readiness. Potential savings in operating and support costs normally shall be an important secondary consideration.

2. Each training event contains information relating to the applicability of simulation. If simulator training applies to the event, then the applicable simulator(s) is/are listed in the “Simulation” section and the CRP for simulation training is given. This simulation training can either be used in place of live training, at the reduced CRP indicated; or can be used as a precursor training for the live event, i.e., weapons simulators, convoy trainers, observed fire trainers, etc. It is recommended that tasks be performed by simulation prior to being performed in a live-fire environment. However, in the case where simulation is used as a precursor for the live event, then the unit will receive credit for the live event CRP only. If a tactical situation develops that precludes performing the live event, the unit would then receive credit for the simulation CRP.

1014. MARINE CORPS GROUND T&R PROGRAM

1. The Marine Corps Ground T&R Program continues to evolve. The vision for Ground T&R Program is to publish a T&R Manual for every readiness-reporting unit so that core capability METs are clearly defined with supporting collective training standards, and to publish community-based T&R Manuals for all occupational fields whose personnel augment other units to increase their combat and/or logistic capabilities. The vision for this program includes plans to provide a Marine Corps training management information system that enables tracking of unit and individual training accomplishments by unit commanders and small unit leaders, automatically computing CRP for both units and individual Marines based upon MOS and rank (or billet). Linkage of T&R Events to the Marine Corps Task List (MCTL), through the core capability METs, has enabled objective assessment of training readiness in the DRRS.

2. DRRS measures and reports on the readiness of military forces and the supporting infrastructure to meet missions and goals assigned by the Secretary of Defense. With unit CRP based on the unit’s training toward its METs, the CRP will provide a more accurate picture of a unit’s readiness. This will give fidelity to future funding requests and factor into the allocation of resources. Additionally, the Ground T&R Program will help to ensure training remains focused on mission accomplishment and that training readiness reporting is tied to units’ METLs.

GROUND ORD MAINT T&R MANUAL

CHAPTER 2

MISSION ESSENTIAL TASKS MATRIX

	PARAGRAPH	PAGE
GROUND ORD MAINT MISSION ESSENTIAL TASKS MATRIX	2000	2-2

CHAPTER 2

MISSION ESSENTIAL TASKS MATRIX

2000. SERVICE-LEVEL MISSION ESSENTIAL TASKS MATRIX. Below is the Service-Level Mission Essential Task List (METL) Table, which includes the designated MET number, title, and evaluation-coded events that support the MET.

MET #1	**Conduct Combat Service Support Ordnance Maintenance Operations**
ORDM-CSSO-3003	Execute embark plan for organizational equipment
ORDM-CSSO-3005	Establish field maintenance areas and equipment collection points
ORDM-CSSO-3006	Conduct convoy operations in support of unit missions (day and night)
ORDM-CSSO-3007	Employ maintenance contact teams
ORDM-CSSO-3008	Conduct recovery of ordnance weapon systems and equipment
ORDM-CSSO-3009	Conduct evacuation of ordnance weapons systems and equipment
ORDM-CSSO-5005	Coordinate distribution of ordnance assets
MET #2	**Ensure Physical Security for Ground Ordnance Weapons/Equipment**
ORDM-SCTY-3010	Employ organic crew served weapons
ORDM-SCTY-3011	Manage deadly force procedures program
ORDM-SCTY-3014	Manage the accountability of Ammo and Explosives
ORDM-SCTY-3015	Conduct rear area security operations
ORDM-SCTY-3016	Conduct squad/platoon level patrolling in support of rear area security operations
MET #3	**Perform Ground Ordnance Maintenance Admin Functions**
ORDM-ADMN-3001	Perform administrative functions in support of maintenance programs
ORDM-ADMN-4002	Identify repair parts requirements
ORDM-ADMN-4003	Coordinate the requisition and distribution of repair parts
ORDM-ADMN-4006	Manage calibration program
ORDM-ADMN-4008	Manage publication control program
ORDM-ADMN-4012	Manage load testing program
ORDM-ADMN-4014	Manage shop safety program
ORDM-ADMN-5003	Coordinate and conduct command inspections/programs to enhance equipment/unit readiness
ORDM-ADMN-5004	Coordinate the acquisition of equipment shortfalls

GROUND ORD MAINT T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

	PARAGRAPH	PAGE
PURPOSE	3000	3-2
EVENT CODING.	3001	3-2
ORDNANCE REQUIREMENTS	3002	3-2
INDEX OF COLLECTIVE EVENTS BY LEVEL	3003	3-3
3000 LEVEL COLLECTIVE EVENTS.	3004	3-5
4000 LEVEL COLLECTIVE EVENTS.	3005	3-16
5000 LEVEL COLLECTIVE EVENTS.	3006	3-25

CHAPTER 3

COLLECTIVE EVENTS

3000. PURPOSE. This chapter includes all collective events. A collective event is an event that an established unit would perform in combat. These events are linked to a Service-Level Mission Essential Task (MET). This linkage tailor's collective and individual training for the selected MET. Each collective event is composed of component events that provide the major actions required. This may be likely actions, list of functions, or procedures. Accomplishment and proficiency level required of component events are determined by the event standard.

3001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the occupational field: Ordnance Maintenance (ORDM. The second four digits represent the functional or duty area: Combat Service Support Operations (CSSO), Security (SCTY), and Administrative Functions (ADMN). The last four digits represent the level and identifier number of the event. The Ground Ord Maint collective events are separated into three levels:

Level	Job Focus	Number Series	Example
Career	Perform	3000	ORDM-CSSO-3001
Intermediate	Manage	4000	ORDM-ADMN-4001
Advanced	Advice	5000	ORDM-CSSO-5001

Every event has a unique identifier number from 001 to 999.

3002. ORDNANCE REQUIREMENTS. Ordnance requirements cited in these tasks are drawn from Marine Corps Bulletin (MCBul) 8010, Class V(W) Material Allowances for Training and Security.

3003. INDEX OF COLLECTIVE EVENTS BY LEVEL

Event Code	Event	Page
	3000 LEVEL	
ORDM-ADMN-3001	Perform administrative functions as required in support of maintenance programs	3-5
ORDM-CSSO 3002	Identify ordnance maintenance support requirements in support of unit mission	3-5
ORDM-CSSO-3003	Execute embark plan for organizational equipment	3-6
ORDM-CSSO-3004	Conduct MPF/ATF maintenance inspections in support of off/on load	3-7
ORDM-CSSO-3005	Establish field maintenance areas and equipment collection points	3-8
ORDM-CSSO-3006	Conduct convoy operations in support of unit missions (day and night)	3-9
ORDM-CSSO-3007	Employ maintenance contact teams	3-10
ORDM-CSSO-3008	Conduct recovery of ordnance weapons systems and equipment	3-10
ORDM-CSSO-3009	Conduct evacuation of ordnance weapons systems and equipment	3-11
ORDM-SCTY-3010	Employ organic crew-served weapons	3-11
ORDM-SCTY-3011	Manage deadly force procedures program	3-12
ORDM-SCTY-3012	Manage physical security procedures for an armory	3-13
ORDM-SCTY-3013	Manage the accountability of arms	3-13
ORDM-SCTY-3014	Manage the accountability of Ammo and explosives	3-14
ORDM-SCTY-3015	Conduct rear area security operations	3-14
ORDM-SCTY-3016	Conduct squad/platoon level patrolling in support of rear area security operations	3-15
	4000 LEVEL	
ORDM-ADMN-4001	Establish procedures for the security of weapons, tools, and equipment	3-16
ORDM-ADMN-4002	Identify repair parts requirements	3-16
ORDM-ADMN-4003	Coordinate the requisition and distribution of repair parts	3-17
ORDM-ADMN-4004	Manage radiological program	3-17
ORDM-ADMN-4005	Manage modification control program	3-18
ORDM-ADMN-4006	Manage calibration program	3-18
ORDM-ADMN-4007	Manage military occupational specialty (MOS) training program	3-19
ORDM-ADMN-4008	Manage publication control program	3-19
ORDM-ADMN-4009	Manage unit oil analysis program	3-20
ORDM-ADMN-4010	Manage unit administrative storage program to support long-term equipment readiness	3-21
ORDM-ADMN-4011	Manage licensing program	3-21
ORDM-ADMN-4012	Manage load testing program	3-22
ORDM-ADMN-4013	Manage laser program	3-22

ORDM-ADMN-4014	Manage shop safety program	3-23
ORDM-ADMN-4015	Manage tool control program	3-23
	5000 LEVEL	
ORDM-ADMN-5001	Draft/Review ordnance policies, directives, regulations and logistics appendices	3-25
ORDM-ADMN-5002	Coordinate assignment of ordnance personnel	3-25
ORDM-ADMN-5003	Conduct command inspections to enhance equipment/unit readiness	3-26
ORDM-ADMN-5004	Coordinate the acquisition of equipment shortfalls	3-26
ORDM-CSSO-5005	Coordinate distribution of ordnance assets	3-27

3004. 3000 LEVEL COLLECTIVE EVENTS

ORDM-ADMN-3001: Perform administrative functions as required in support of maintenance programs.

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Coordinate assignments of ordnance equipment to specific maintenance programs and complete forms as required to document support actions.

CONDITION: Provided with ordnance equipment and applicable resources, maintenance program references, SOPs, and commander's intent.

STANDARD: To ensure long-term supportability of ordnance weapons systems and equipment.

EVENT COMPONENTS:
1. Joint Oil Analysis Program (JOAP).
2. Corrosion Prevention and Control (CPAC) Program.
3. Physical security program.
4. Safety program
5. Hazardous materials/Waste programs.
6. Layettes management.
7. PM/CM programs.
8. Demilitarization programs.
9. New equipment fielding programs.
10. Embark programs.
11. Support equipment and TMDE programs.
12. Related programs (PQDR, SDR RODS, 10772, etc.).
13. Load testing programs.
14. Publication control.
15. Armory procedures.
16. Maintenance training.
17. Arms, Ammunition, and Explosive management programs.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

ORDM-CSSO-3002: Identify ordnance maintenance support requirements in support of unit missions

SUPPORTED MET(S): 1

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Compile support requirements that adequately establish maintenance capabilities.

CONDITION: Given the unit T/O&E, operation order, CMR, applicable references and the requirement to support a given unit.

STANDARD: Maintain ordnance equipment readiness of the supported unit at a minimum of 75%.

EVENT COMPONENTS:
1. Identify maintenance float block.
2. Identify required tools.
3. Identify required test sets.
4. Identify required support equipment
5. Identify CSS support references.
6. Identify and coordinate unit T/O&E review.
7. Identify recovery capabilities.
8. Identify engineer requirements.
9. Identify lift requirements.

RELATED EVENTS:

2102-ADMN-2002	2111-ADMN-1001	2102-ADMN-2004
2102-ADMN-2005	2102-ADMN-2006	2102-ADMN-2007
2102-ADMN-2008	2102-ADMN-2009	2102-ADMN-2010
2102-ADMN-2011	2102-ADMN-2012	2102-ADMN-2013
2102-ADMN-2014	2102-ADMN-2015	2102-ADMN-2016
2102-ADMN-2018	2102-ADMN-2003	

REFERENCES:
1. MCO P4400.150E Consumer Level Policy Manual
2. MCO P4790.2 MIMMS Field Procedures Manual

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:
Facility Code 17413 Field Training Area

ORDM-CSSO-3003: Execute embark plan for organizational equipment

SUPPORTED MET(S): 1

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Execute embark plans for organizational equipment.

CONDITION: Provided access to the T/O&E, operations order, embark SOP (if available) and available embarkation assets.

STANDARD: Arrive at the assigned area with the appropriate equipment to conduct ordnance maintenance.

EVENT COMPONENTS:
1. Review embark SOP.
2. Identify organic equipment to be embarked
3. Develop EDL.
4. Identify and request T/E deficiencies.

5. Identify and prepare containers required for embarkation
6. Perform weatherproofing to containers and equipment.
7. Identify and embark required PEB.
8. Identify and embark Class IX consumable and repairable blocks.
9. Identify and embark required HAZMAT & POLs.
10. Identify and embark required publications.
11. Consolidate embark plan with adjacent elements/units.
12. Identify and request support (i.e. MHE) equipment required.
13. Provide data for entry into MDSSII.

REFERENCES:
1. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)

ORDM-CSSO-3004: Conduct MPF/ATF maintenance inspections in support of off/on load

SUPPORTED MET(S): 1

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Conduct maintenance checks and services for ordnance equipment loaded aboard MPF ships and in other types of equipment storage pools.

CONDITION: Given applicable resources, equipment requiring inspection and servicing, and timelines for completion as established by the operations order.

STANDARD: Ensure equipment readiness of forward deployed assets in accordance with established timelines.

EVENT COMPONENTS:
1. Compile a list of equipment requiring servicing.
2. Coordinate assignment of appropriate personnel.
3. Allocate required tools, sets, chests, and kits to conduct maintenance.
4. Conduct maintenance services.
5. Identify repair parts requirements.
6. Acquire required repair parts.
7. Track completion of services.
8. Document completion of all maintenance transactions.
9. Coordinate the distribution of assets with appropriate personnel.

RELATED EVENTS:

2125-ADMN-2011	2146-MANT-1047	2146-MANT-1055
2120-ADMN-2011	2181-ADMN-2010	2110-ADMN-2011
2147-MANT-1004		

REFERENCES:
1. Automated Inspection Reporting System (AIRS) checklist

ORDM-CSSO-3005: Establish field maintenance areas and equipment collection points

SUPPORTED MET(S): 1

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Set up expeditionary field maintenance areas to provide preventative and corrective maintenance on ordnance equipment and facilitate the coordination of equipment collection points as far forward as possible to ensure expeditious equipment evacuation, and/or Battle Damage Assessment and Repair.

CONDITION: Given appropriate references, equipment, personnel, facilities, and adequate support assets.

STANDARD: Maintain unit readiness in a field environment at 75% or higher at all times.

EVENT COMPONENTS:
1. Perform Leaders Reconnaissance.
2. Set up maintenance shelters.
3. Set up power.
4. Set up climate controlled areas.
5. Establish local security.
6. Establish hazardous material collection point.
7. Establish fuel farm.
8. Identify supply distribution point.
9. Establish primary end item collection point.
10. Identify field maintenance areas.
11. Determine maintenance space requirements.
12. Identify assets for embark.
13. Submit fuel request.
14. Submit requests for ammunition.
15. Submit request for external heavy lift/personnel transportation support.
16. Submit request for external personnel requirements such as generator mechanics, refrigeration mechanics, and communications specialists.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO P4790.2 MIMMS Field Procedures Manual

SUPPORT REQUIREMENTS:

ORDNANCE:

DODIC
G955 Grenade, Hand Violet Smoke M18
G963 Grenade, Hand Riot CS M7A3
A111 Cartridge, 7.62mm Blank M82 Linked
G945 Grenade, Hand Yellow Smoke M18
A080 Cartridge, 5.56mm Blank M200 Single
G930 Grenade, Hand Smoke HC AN-M8
G950 Grenade, Hand Red Smoke M18

RANGE/TRAINING AREA:
Facility Code 17413 Field Training Area

EQUIPMENT: Embark requirements must be taken into account for, but not limited to, all maintenance resources, to include shelters, supply, and personnel. Physical Security must be taken into account for any items requiring security.

ORDM-CSSO-3006: Conduct convoy operations in support of unit missions (day and night)

SUPPORTED MET(S): 1

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 3 months

DESCRIPTION: Conduct day and night convoy operations to move CSS elements from origin to destination while maintaining security and control.

CONDITION: Provided mission, vehicles, equipment, personnel and adequate training area.

STANDARD: Execute convoy operations per the references and OPLAN.

EVENT COMPONENTS:
1. Identify required personnel and equipment.
2. Set up communications.
3. Plan route.
4. Plan security.
5. Plan for self recovery/repair.
6. Prepare convoy brief.
7. Coordinate supporting arms.
8. Conduct rehearsals.
9. Plan immediate actions.
10. Conduct equipment and personnel inspections.
11. Identify rally points.
12. Plan MEDEVAC procedures.
13. Identify and request required logistics support, internal and external (fuel, ammo, water, etc).
14. Plan alternate routes.
15. Prepare route overlays.

RELATED EVENTS:
2102-ADMN-2007 2141-MANT-1007 2120-TECH-2025
2110-TECH-2024

REFERENCES:
1. FMFM 2-6 MAGTF Rear Area Security
2. FMFM 6 Ground Combat Operations
3. MCDP 1-3 Tactics

ORDM-CSSO-3007: Employ maintenance contact teams

SUPPORTED MET(S): 1

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 3 months

DESCRIPTION: Employ task organized contact to effect on-site repairs of battle damaged ordnance equipment, apply required modifications.

CONDITION: Provided necessary maintenance resources (equipment and personnel) and forward located inoperative ordnance equipment.

STANDARD: Repair forward located ordnance equipment to a satisfactory operating level, per the references.

EVENT COMPONENTS:
1. Form contact teams based on mission.
2. Assess situation.
3. Identify required equipment.
4. Make liaison with supported unit, HHQ Intel, and Operations sections.
5. Establish and maintain communications.
6. Provide security.
7. Plan route (to and from).
8. Request external support requirements.
9. Submit AAR.
10. Conduct movement to and from site.
11. Maintain security and control during all movements.
12. Perform required maintenance actions or recovery.

ORDM-CSSO-3008: Conduct recovery of ordnance weapons systems and equipment

SUPPORTED MET(S): 1

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Conduct battle damage assessment and repair or recovery of unserviceable/inoperative weapon systems and equipment.

CONDITION: Provided required recovery assets and a variety of forward located unserviceable ordnance equipment.

STANDARD: Ensure that unserviceable/inoperative ordnance weapons systems and equipment are recovered, in order to enable the repair and return of serviceable ordnance assets to forward elements.

EVENT COMPONENTS:
1. Assess the situation.
2. Establish communications with supported units.
3. Establish communications with recovery teams.
4. Establish collection points.
5. Identify required equipment and personnel.
6. Conduct route reconnaissance.
7. Operate recovery equipment.

8. Provide necessary documentation to equipment owner.
9. Conduct battle damage assessment.
10. Conduct repair.

ORDM-CSSO-3009: Conduct evacuation of ordnance weapons systems and equipment

SUPPORTED MET(S): 1

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Conduct evacuation of unserviceable/inoperative ordnance systems and equipment to supporting CSSE.

CONDITION: Provided required recovery assets and forward located unserviceable ordnance equipment.

STANDARD: Evacuate forward located ordnance equipment to appropriate maintenance collection areas per the reference.

EVENT COMPONENTS:
1. Identify supporting activities.
2. Identify and make liaison with any supporting civilian agencies (DHL, FedEx, Host Nation trucking, etc).
3. Establish and maintain communications with supporting activities.
4. Establish method(s) of evacuation to supporting activities.
5. Identify equipment requiring evacuation.
6. Identify personnel and equipment required.
7. Coordinate with external activities for support (air, sea, heavy lift).
8. Request/Coordinate contact team support.
9. Arrange for replacement/return of evacuated equipment.
10. Replace via Class VII, redistribute, etc.
11. Ensure required documentation/receipts are completed and retained.

ORDM-SCTY-3010: Employ organic crew-served weapons

SUPPORTED MET(S): 2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Employ, emplace and coordinate crew-served weapons.

CONDITION: Provide organic crew-served weapons, personnel and tactical scenario.

STANDARD: Provide adequate fire support to CSS elements.

EVENT COMPONENTS:
1. Employ vehicle mounted crew served weapons.
2. Identify required equipment for vehicle mounting.
3. Perform required PM and function checks.
4. Incorporate crew served weapons in RAS plan.

5. Assign sectors of fire, PDFs, and FPFs.
6. Assign crew-served weapons teams.
7. Emplace crew served weapons.
8. Create range cards and fire plans.

SUPPORT REQUIREMENTS:

ORDNANCE:

DODIC	Quantity
A576 Cartridge, Caliber .50 4 API M8/1 AP	
A151 Cartridge, 7.62mm 4 Ball/1 Tracer Li	
B542 Cartridge, 40mm HEDP M430/M430A1 Lin	

ROOMS/BUILDINGS: Armory

ORDM-SCTY-3011: Manage deadly force procedures program

SUPPORTED MET(S): 2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 1 month

DESCRIPTION: Develop/maintain a program that trains personnel in the proper application of deadly force procedures.

CONDITION: Given appropriate resources, equipment, facilities, and personnel.

STANDARD: Protect sensitive government property and prevent the inappropriate use of deadly force by guard personnel.

EVENT COMPONENTS:
1. Conduct deadly force briefs.
2. Conduct deadly force training.
3. Obtain equipment to train individuals/units.
4. Conduct testing of the levels of deadly force.
5. Identify the level of classification of security material being protected.
6. Understand Rules of Engagement if applicable.

REFERENCES:
1. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA:
Facility Code 17530 Record Fire Range Non-Automated
Facility Code 17570 Pistol Known Distance (KD) Range
Facility Code 17550 Rifle Known Distance (KD) Range
Facility Code 17320 Training Aids Center

EQUIPMENT: 782 gear, Flak jacket, Kevlar, Individual weapon system/crew-serve weapon system, Note taking gear, and appropriate uniform.

ORDM-SCTY-3012: Manage physical security procedures for an armory

SUPPORTED MET(S): 2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 1 month

DESCRIPTION: Provide physical security for arms during the standard business day and during field exercises; ensure adequate security is in place when the armory is closed.

CONDITION: Given appropriate resources, equipment, facilities, and personnel.

STANDARD: Prevent physical loss of arms and ammunition.

EVENT COMPONENTS:
1. Appoint armory guard/duty.
2. Maintain security ammunition.
3. Coordinate reactionary training drills.
4. Coordinate with MPs to ensure IDs systems are working properly.

REFERENCES:
1. MCO 4340.1A Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
2. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
3. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
4. MCO P5530.14 Marine Corps Physical Security Program Manual
5 OPNAVINST 5530.13C Physical Security and Loss Prevention
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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ORDM-SCTY-3013: Manage the accountability of arms

SUPPORTED MET(S): 2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 1 month

DESCRIPTION: Conduct inventories as required and provide guidance to the commander, S4, and supply personnel on specific arms accountability procedures as outlined in the directives.

CONDITION: Given the applicable resources.

STANDARD: Maintain 100% weapons accountability at all times and provide an accurate audit trail of all arms transactions.

EVENT COMPONENTS:
1. Coordinate daily sight counts (open/close).
2. Coordinate with Supply/S4 to ensure that required monthly-serialized inventories are being conducted by disinterested 3rd parties.
3. Coordinate with Supply to ensure CRANE reporting is being conducted.

SUPPORT REQUIREMENTS:

ROOMS/BUILDINGS: Armory

EQUIPMENT: 782 gear, flak jacket, kevlar, individual weapon system/crew serve weapon system, note taking gear, and appropriate uniform.

ORDM-SCTY-3014: Manage the accountability of Ammo and explosives

SUPPORTED MET(S): 2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Develop/Maintain a program that accounts for all Ammunition and Explosive (A&E) items within the unit.

CONDITION: Given security ammunition and emergency explosives, an armory, and appropriate references.

STANDARD: Account for, properly store, issue, and maintain all A&E assets.

EVENT COMPONENTS:
1. Coordinate ammo expenditure reports.
2. Identify the procedures for tracking security ammunition through an active, traceable audit trail.
3. Manage ammo-handling procedures.
4. Manage AA&E screening and qualification program.
5. Manage security ammunition.
6. Evaluate armory facility/storage area for compliance with physical security references.
7. Identify requirements for transportation and storage of AA&E.
8. Identify procedures for reporting MLSR.

REFERENCES:
1. OPNAVINST 5530.13C Physical Security and Loss Prevention

ORDM-SCTY-3015: Conduct rear area security operations

SUPPORTED MET(S): 2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 6 months

DESCRIPTION: Plan and conduct rear area security operations IAW threat level to detect and counter enemy actions while maintaining CSS operations.

CONDITION: Provide training area, tactical scenario, equipment, and personnel.

STANDARD: Provide adequate rear area security for CSS area commensurate with threat level.

EVENT COMPONENTS:
1. Estimate enemy (SALUTE).
2. Estimate situation.
3. Assign and place automatic weapons.
4. Construct barriers and fortifications.
5. Assign security roles to personnel.
6. Identify reactionary force roles.
7. Rehearse immediate action drills.
8. Conduct security patrols.
9. Coordinate supporting arms.
10. Establish communications (internal and supporting).
11. Establish entry control point(s).
12. Assign sectors of fire.
13. Build bunkers.

ORDM-SCTY-3016: Conduct squad/platoon level patrolling in support of rear area security operations

SUPPORTED MET(S): 2

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 6 months

DESCRIPTION: Plan and conduct squad/platoon level patrols IAW threat level to detect and counter enemy actions while maintaining ordnance maintenance operator operations.

CONDITION: Provided training area, tactical scenario, equipment and personnel.

STANDARD: Provide squad/platoon patrols in support of rear area security for CSS are commensurate with threat level.

EVENT COMPONENTS:
1. Assign patrols.
2. Train personnel.
3. Conduct rehearsals.
4. Establish communications and signals (with COMM).
5. Establish communications and signals (without COMM).
6. Coordinate supporting fires.
7. Establish med-evac procedures.
8. Identify rules of engagement.
9. ID procedures to re-enter friendly lines (normal and emergency).

3005. 4000 LEVEL COLLECTIVE EVENTS

ORDM-ADMN-4001: Establish procedures for the security of weapons, tools, and equipment

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

DESCRIPTION: Establish procedures to maintain accountability and control of weapons, tools, and equipment.

CONDITION: Provided a CSS site, weapons, tools, and maintenance equipment.

STANDARD: Ensure that weapons and equipment are issued, retrieved, and accounted for during all phases of the operation.

EVENT COMPONENTS:
1. Identify security levels required by equipment type.
2. Identify security personnel.
3. Establish CSS security.
4. Establish accountability procedures for equipment (equipment logs, ECR's, individual CMR's).
5. Establish armory facility.
6. Assign equipment to authorized personnel.

ORDM-ADMN-4002: Identify repair parts requirements

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Identify, procure, document, and utilize required repair parts and secondary reparable items in support of unit operations.

CONDITION: Given an operational order, EDL, Table of Equipment, assigned equipment, and personnel, past mission historical data, after action reports, and required publication.

STANDARD: To enable the timely repair of forward deployed ordnance weapons systems and equipment in support of unit operations.

EVENT COMPONENTS:
1. Review historical data and Class IX consumable and repairable parts.
2. Based on operation and equipment density list, determine appropriate Class IX quantities.
3. Review after action reports to highlight previous mission problem areas.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO P4400.150E Consumer Level Policy Manual

3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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ORDM-ADMN-4003: Coordinate the requisition and distribution of repair parts

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Coordinate with the unit MMO and Supply to comply with requisition procedures for repair parts and ensure that personnel are familiar with those procedures. Once parts are received, coordinate the distribution of those parts to the mechanic who can complete the repairs.

CONDITION: Given a mission statement, T/O&E, and operations order.

STANDARD: To ensure requisitions are processed per operations order and, once requisitions are received, they are applied to the appropriate equipment.

EVENT COMPONENTS:
1. Consider units to be supported.
2. Establish supply module.
3. Set up layette bins.
4. Consider terrain.
5. Coordinate with MMO to establish commodity representatives.
6. Administration (MIMMS).

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO P4400.150E Consumer Level Policy Manual
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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ORDM-ADMN-4004: Manage radiological program

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 18 months

DESCRIPTION: Identify the proper care, handling, disposal, and reporting procedures for items containing radiological materials.

CONDITION: Given appropriate references and equipment containing radiological materials.

STANDARD: Minimize the effects of radiological exposure from the misuse/handling of items containing radiological materials and comply with current reporting requirements of radiological equipment references.

EVENT COMPONENTS:
1. Review unit T/E to identify TAM items that contain radioactive materials.
2. Review appropriate references for proper handling and disposal.
3. Follow applicable reporting procedures.

REFERENCES:
1. MCO 5104.3 Marine Corps Radiation Safety Program

ORDM-ADMN-4005: Manage modification control program

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Develop and manage a modifications control program based on the units T/E.

CONDITION: Given unit T/E, SL-1/2, PLMS, and unit's publications library.

STANDARD: Apply required modifications, document modification actions and ensure equipment operates according to the modification applications.

EVENT COMPONENTS:
1. Review unit T/E to determine equipment within a unit.
2. Review with SL-1-2 to determine which modifications are needed per each TAM item within that unit.
3. Review Publications library to ensure all applicable MIs are on hand.
4. Verify that all modifications required per each TAM item, are either completed or on order.
5. Ensure that Modifications control forms are properly completed.
6. Ensure all records are properly filed.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. SL-1-2 Index of Authorized Publication for Equipment Support
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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ORDM-ADMN-4006: Manage calibration program

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Identify all Test Measuring and Diagnostic Equipment (TMDE) requiring calibrations, submit assets for calibrations, and conduct management of the program for future requirements. Implement procedures that reduce the threat of fraud, waste, and abuse. Ensure proper use of support equipment for organic assets.

CONDITION: Given organic tools, equipment, TMDE, and applicable references.

STANDARD: Ensure equipment is maintained in accordance with guidelines established for the management of support equipment and TMDE.

EVENT COMPONENTS:
1. Validate T/E to determine equipment requirements.
2. Identify equipment requiring calibration.
3. Implement tool control procedures.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. TI-4733-15/1 Calibration Requirements

ORDM-ADMN-4007: Manage military occupational specialty (MOS) training program

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

DESCRIPTION: Develop and manage an MOS training program IAW unit's mission, T/O, ITSs, collective events, and directives providing procedures and guidance to establish and conduct MOS training in support of unit operations.

CONDITION: Given a unit T/O, unit METs, ITS's, and personnel of Ground Ordnance Maintenance MOSs.

STANDARD: Ensure properly trained personnel are available to perform assigned missions.

EVENT COMPONENTS:
1. Determine maintenance capability by reviewing T/O&E mission statements.
2. Identify individual MOSs by reviewing unit T/O.
3. Extract ITSs for each particular MOS within unit.
4. Develop training plan to accommodate unit's METs.
5. Train individuals.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual

SUPPORT REQUIREMENTS:

EQUIPMENT: Binders and shelves

OTHER SUPPORT REQUIREMENTS: T/O&E and current PLMS.

ORDM-ADMN-4008: Manage publication control program

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 3 months

DESCRIPTION: Provide a publications library to research information required to support maintenance actions.

CONDITION: Given a unit T/O and T/E, unit mission requirements, and access to PLMS.

STANDARD: The library should be capable of rapid deployment and contain TMs, TIs, MIs, SIs, SLs, and other pertinent directives as required by unit missions and in accordance criteria outlined in MCO P4790.2.

EVENT COMPONENTS:
1. Review Unit T/E.
2. Identify required publications by reviewing SL-1-2/SL-1-3.
3. Review publications library to assure that all publications and changes are needed and required.
4. Request and validate publications that are required.
5. Implement changes and organize library per the references.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. MCO P5215.17 USMC Technical Publications System
3. MCO P5600.31G Marine Corps Publications and Printing Regulations
4. SL-1-2 Index of Authorized Publication for Equipment Support
5. SL-1-3 Index of Authorized Publication for Equipment Support

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ORDM-ADMN-4009: Manage unit oil analysis program

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Identify all ordnance equipment that qualifies for placement in the Joint Oil Analysis Program (JOAP), assign those assets to the program, and manage the program in support of unit missions.

CONDITION: Given appropriate references and access to the unit T/E, CMR, and JOAP references.

STANDARD: Prevent catastrophic engine failures through oil analysis and reduce the long-term maintenance cost of ordnance vehicles.

EVENT COMPONENTS:
1. Identify items requiring induction into JOAP by reviewing unit T/E and appropriate references.
2. Conduct oil sampling per the references.
3. Record and maintain records for JOAP per the references.
4. Identify shipping and handling procedures for JOAP per the references.
5. Take appropriate action based on sampling analysis.

REFERENCES:
1. TI-4731-14/1C MC Joint Oil Analysis Program

ORDM-ADMN-4010: Manage unit administrative storage program to support long-term equipment readiness

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

DESCRIPTION: Placed designated equipment into administrative storage programs as required and manage the scheduling of maintenance tasks required for items in the program.

CONDITION: Given applicable reference, commander's intent, appropriate storage facility, and equipment designated for administrative storage.

STANDARD: Provide mission capable ordnance equipment in support of long-term equipment readiness.

EVENT COMPONENTS:
1. Establish/Review/Update local SOPs regarding the Administrative Storage Program.
2. Identify procedures to induct equipment into the Administrative Storage Program.
3. Induct equipment into the Administrative Storage Program.
4. Identify, update, and properly code Administrative Storage Candidates.
5. Ensure items inducted into the Administrative Storage Program do not exceed timelines in accordance with the reference.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual

ORDM-ADMN-4011: Manage licensing program

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Develop and manage a Licensing Program to properly log, examine, and certify ordnance vehicle operators in the performance of their duties. Identify individuals that need Ordnance Vehicle Operators Licenses and develop a program to effectively train, test, and track individuals.

CONDITION: Given applicable references, personnel requiring licensing, and specific ordnance vehicles.

STANDARD: Accurately develop and manage a Licensing Program to accommodate unit requirements.

EVENT COMPONENTS:
1. Review T/O and T/E to determine equipment that requires licensed operators.
2. Assign licensing officer/SNCO and test examiners.
3. Log and maintain records of individuals licensed.
4. Provide written testing and operator training.

REFERENCES:
1. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
2. MCO 8400.6 Licensing Procedure for Ordnance Vehicle Operators

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ORDM-ADMN-4012: Manage load testing program

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Develop and manage a load testing program to accommodate a specific unit by identifying equipment requiring load-testing certification.

CONDITION: Given a unit T/E, CMR, and appropriate references.

STANDARD: Reduce the risk of load lifting/bearing hazards in the work place and comply with current directives.

EVENT COMPONENTS:
1. Identify the references and components for a load testing program.
2. Identify frequencies for load testing equipment.
3. Inspect, record, and maintain record jackets and documents.
4. Identify equipment required to be load tested.
5. Conduct an annual load test certification.

REFERENCES:
1. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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ORDM-ADMN-4013: Manage laser program

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Develop and manage a laser safety program in support of unit operations.

CONDITION: Given a unit T/E and appropriate references.

STANDARD: Reduce the threat of laser injuries in the workplace.

EVENT COMPONENTS:
1. Review unit T/E and identify all equipment within a particular unit containing lasers.
2. Identify classifications of lasers within a unit.
3. Identify equipment marking to determine if equipment contains a laser or is a potential radiation safety hazard.

4. Identify laser/radiation safety references.
5. Identify the procedures to respond to a laser injury or a radiological incident.

REFERENCES:
1. MCO 5104.3 Marine Corps Radiation Safety Program
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TI-5104-15/2 Special Handling of Tritium Fire Control Instruments

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ORDM-ADMN-4014: Manage shop safety program

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Ensure compliance with published safety orders and directives in developing and maintaining operations in support of unit missions.

CONDITION: Given a work environment, personnel and equipment, and appropriate references.

STANDARD: Reduce and/or eliminate the risk of injury to maintenance personnel while performing required unit missions.

EVENT COMPONENTS:
1. Identify that a units particular needs (hard hats, safety boots, safety goggles, MSDS's etc.) are met.
2. Ensure references and resources/protective equipment are available.
3. Implement ORM into unit's daily routine (ORM charts posted in work spaces).
4. Provide required training.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 3500.27 Operational Risk Management
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO P4790.2 MIMMS Field Procedures Manual

ORDM-ADMN-4015: Manage tool control program

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Implement procedures for tool control that reduce the threat of fraud, waste, and abuse.

CONDITION: Given organic tools, equipment, and applicable references.

STANDARD: Ensure tool accountability is maintained in accordance with established guidelines.

EVENT COMPONENTS:
1. Validate T/E to determine equipment requirements.
2. Implement tool control procedures.

REFERENCES:
1. MCO P4400.150E Consumer Level Policy Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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3006. 5000 LEVEL COLLECTIVE EVENTS

ORDM-ADMN-5001: Draft/Review ordnance policies, directives, regulations and logistics appendices

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

DESCRIPTION: Draft/Review written policies, directives, regulations, and logistics appendices in support of unit maintenance operations to provide clarification, standard operating procedures and any amplifying instructions.

CONDITION: Given Marine Corps Orders and Directives, Unit Standing Operating Procedures, Naval Instructions, Department of Defense Publications, and Equipment Technical Publications.

STANDARD: Provide supported elements with necessary instruction on maintenance support of ordnance weapons systems and equipment.

EVENT COMPONENTS:
1. Review orders and directives.
2. Coordinate with supply.
3. Establish shop policy.
4. Assign personnel.
5. Coordinate with individual section and validate drafts.
6. Provide guidance to commanders in support of ordnance maintenance operations and physical security functions.

REFERENCES:
1. MCO P5215.17 USMC Technical Publications System
2. SL-1-2 Index of Authorized Publication for Equipment Support
3. SL-1-3 Index of Authorized Publication for Equipment Support

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ORDM-ADMN-5002: Coordinate assignment of ordnance personnel

SUPPORTED MET(S): 3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

DESCRIPTION: Review unit T/Os and/or operation orders; assign OccFld 21 personnel to specific billets/assignments in support of assigned operations. Coordinate with the occupational field sponsor and monitor to assist in filling personnel shortfalls.

CONDITION: Given a unit T/O, mission orders, and access to personnel monitors/sponsors.

STANDARD: To ensure key ordnance maintenance personnel are available to support unit missions.

EVENT COMPONENTS:
1. View units mission statement.
2. View supported units T/O and T/E.
3. View supporting units mission statements.
4. Access TFMS.
5. Track inbound and outbound personnel.
6. Maintain lists of key billets for specific operations.
7. Validate the T/O.
8. Review the mission statement.
9. Review operation order.
10. Submit Table of Organization Change Requests.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO P4400.150E Consumer Level Policy Manual
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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ORDM-ADMN-5003: Conduct command inspections to enhance equipment/unit readiness

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 12 months

CONDITION: Given orders, directives, policies, and logistics appendices.

STANDARD: Evaluate unit readiness, efficiencies and compliance with established Marine Corps policies and directives.

EVENT COMPONENTS:
1. Review orders and directives governing maintenance programs.
2. Inspect for serviceability of ordnance weapons systems and equipment.
3. Inspect unit publications control program.
4. Inspect unit modification control program.
5. Inspect unit maintenance control program.
6. Inspect unit support equipment and TMDE tool control program.

REFERENCES:
1. MCLCAT Marine Corps Logistics Chain Analysis Team Checklist

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ORDM-ADMN-5004: Coordinate the acquisition of equipment shortfalls

SUPPORTED MET(S): 3

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL:** 3 months

DESCRIPTION: Validate the T/O&E and operation Equipment Density List (EDL) to determine equipment shortfalls for SAC 1, 2, 3 TAMCNs and reconcile with supply and HHQ to acquire deficiencies.

CONDITION: Given a T/O&E and EDL for a specific operation for supporting and supported units.

STANDARD: Requisition equipment deficiencies needed to support the unit's mission.

EVENT COMPONENTS:
1. Review higher HQ capabilities.
2. Review T/O and T/E.
3. Review unit CMR.
4. Review unit EDL.
5. Review op order.
6. Review mission statement from T/O.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO P4400.150E Consumer Level Policy Manual
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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ORDM-CSSO-5005: Coordinate distribution of ordnance assets

SUPPORTED MET(S): 1

EVALUATION-CODED: YES **SUSTAINMENT INTERVAL**: 12 months

DESCRIPTION: Coordinate, manage, and disseminate all required ordnance assets to assigned units. This event applies to MPF/ATF/EEAP/NALMEB.

CONDITION: Given an Equipment Density List (EDL), access to Total Force Management Structure (TFMS), list of units conducting operations, appropriate reference(s), equipment, and personnel.

STANDARD: Ensure all assigned units receive sufficient equipment to perform assigned missions IAW Oplans.

EVENT COMPONENTS:
1. Identify embarkation assets.
2. Identify T/E deficiencies.
3. Identify unit assets.
4. Identify unit deficiencies.
5. Identify tool/special tool requirements.
6. Identify individual points of contact within the unit.
7. Identify support assets.
8. Review supportability estimate.
9. Identify mission requirements.
10. Identify MPF sourcing IAW OPLAN.
11. Identify organic requirements/tasks.
12. Submit organic requirements to MDSII/TPFDI.
13. Identify shortfalls.
14. Submit requisitions to cover shortfalls.
15. Reconcile backorder requisitions.

16. Distribute backorder receipts.
17. Validate Sac 3 Sustainment as provided from HHQ.
18. Re-evaluate supportability.

REFERENCES:

1. FMFM 4-3 MAGTF Landing Support Operations
2. MCWP 4-1 Logistics Operations

GROUND ORD MAINT T&R MANUAL

CHAPTER 4

MOS 2102 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	4000	4-2
EVENT CODING	4001	4-2
ADMINISTRATIVE NOTES	4002	4-2
INDEX OF INDIVIDUAL EVENTS	4003	4-3
2000-LEVEL EVENTS	4004	4-4

CHAPTER 4

MOS 2102 INDIVIDUAL EVENTS

4000. PURPOSE. This chapter contains individual training events for the Ordnance Officer.

4001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2102). The second four digits represent the functional or duty area. In this chapter, there is only one functional area, Administrative Functions (ADMN). The last four digits represent the level, and identifier number of the event. This chapter contains only 2000 level events. Each individual event has an identifier number from 001 to 999.

4002. ADMINISTRATIVE NOTES

1. Various staff assignments will include but are not limited to Headquarters Marine Corps, Joint Task Forces (JTF), Marine Expeditionary Forces (MEF), and Marine Divisions. Due to the scope of duties and responsibilities at each level, the grade/rank structures will vary.

a. MARFORs, MLGs, Divisions, JTF, TECOM, Bases, Posts, and Stations - Majors.

b. MEF, JTF, MARFORRES, LOGCOM, Posts, Bases, and Stations – Lieutenant Colonel.

2. Automated systems include CD-ROM, web based information and all applications of electronic media.

4003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	2000 LEVEL	
2102-ADMN-2001	Provide technical advice concerning ground ordnance equipment	4-4
2102-ADMN-2002	Write ground ordnance policies, directives, and regulations	4-5
2102-ADMN-2003	Provide technical management for the repair of ground ordnance equipment	4-5
2102-ADMN-2004	Coordinate the fielding of ground ordnance equipment	4-6
2102-ADMN-2005	Develop maintenance appendices for the logistics annex of operation orders	4-7
2102-ADMN-2006	Manage maintenance information requirements for ground ordnance equipment	4-7
2102-ADMN-2007	Coordinate maintenance for ground ordnance equipment	4-8
2102-ADMN-2008	Monitor compliance with physical security programs	4-9
2102-ADMN-2009	Manage ammunition control programs	4-9
2102-ADMN-2010	Monitor ground ordnance equipment corrective maintenance programs	4-10
2102-ADMN-2011	Monitor ground ordnance equipment Preventive Maintenance Checks and Services (PMCS) programs	4-11
2102-ADMN-2012	Monitor ground ordnance equipment maintenance resources	4-11
2102-ADMN-2013	Monitor maintenance related programs for ground ordnance equipment	4-12
2102-ADMN-2014	Monitor ground ordnance equipment formal school training	4-13
2102-ADMN-2015	Prepare correspondence messages relating to ground ordnance equipment	4-13
2102-ADMN-2016	Review higher headquarters directives relating to ground ordnance equipment	4-14
2102-ADMN-2017	Establish major subordinate command-level inspection program for ground ordnance equipment	4-15
2102-ADMN-2018	Perform Occupational Sponsor duties for ground ordnance equipment community	4-15

4004. 2000-LEVEL INDIVIDUAL EVENTS

2102-ADMN-2001: Provide technical advice concerning ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an automated system with internet access, Table of Organization & Equipment, personnel, direction from the Commanding General or staff and references.

STANDARD: To ensure procedures for proper maintenance and distribution of ground ordnance equipment are employed and adhered to.

PERFORMANCE STEPS:
1. Prepare information on all matters relating to ground ordnance issues.
2. Provide guidance on all matters relating to ground ordnance issues.
3. Provide recommendations on all matters relating to ground ordnance issues.
4. Compose staffing papers on ground ordnance related issues.
5. Conduct ground ordnance related briefings.
6. Serve as ground ordnance specialist on various staffs.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. Local Policies/Procedures
3. MCBUL 1200 Military Occupational Specialties Manual
4. MCBUL 3000 MARES Logistics Reportable Equipment
5. MCO 3000.11C Marine Ground Readiness Reporting
6. MCO 4105.2 Marine Corps Warranty Program
7. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
8. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
9. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
10. MCO 4855.10 Product Quality Deficiency Report (PQDR)
11. MCO 5100.29 Marine Corps Safety Program w/CH 1
12. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
13. MCO 5104.1B Marine Corps Laser Hazard Control Program
14. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
15. MCO 5530.14 Marine Corps Physical Security Program Manual
16. MCO 8025.1 Malfunction and Deficiency Reporting
17. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
18. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
19. MCO P4400.105 Radioactive Commodities DOD System
20. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
21. MCO P4790.2 MIMMS Field Procedures Manual
22. MCO P5090.2A Environmental Compliance and Protection Manual
23. OPNAVINST 5530.13C Physical Security and Loss Prevention

24. TB MED 524 Control of Hazards to Health from Laser Radiation
25. TI-4731-14/1C MC Joint Oil Analysis Program
26. TI-4733-15/1 Calibration Requirements
27. TI-4733-15/11F Infantry Weapons Gauge Calibration Exchange Program
28. UM 4400-124 FMF SASSY Using Unit Procedures
29. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
30. UM-PLMS Publications Library Management System
31. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2002: Write ground ordnance policies, directives, and regulations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (TO&E), equipment, personnel, and the references.

STANDARD: To ensure all ordnance procedures, directives, and regulations from adjacent/higher commands are adhered to per the references.

PERFORMANCE STEPS:
1. Validate requirements.
2. Determine requirements.
3. Develop policy as it relates to ground ordnance issues.
4. Develop directives as it relates to ground ordnance issues.
5. Staff documents through appropriate higher/adjacent agencies.
6. Analyze the effectiveness of policies.

REFERENCES:
1. Applicable Equipment Technical Manuals

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, Para 4002.

2102-ADMN-2003: Provide technical management for the repair of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable references, automated systems with internet access and equipment technical information.

STANDARD: To ensure maintenance of ground ordnance equipment is accomplished per mission requirements and the references.

PERFORMANCE STEPS:
1. Forecast requirements based off empirical data.
2. Validate requirements.
3. Validate deficiencies.
4. Direct maintenance solutions.
5. Forecast requirements based off empirical data. Monitor maintenance effort.
6. Provide technical guidance.
7. Analyze effectiveness of administrative functions.
8. Focus ground ordnance equipment maintenance effort to maximum combat effectiveness.
9. Sustain ground ordnance equipment maintenance effort to maximum combat effectiveness.
10. Monitor configuration management.

REFERENCES:
1. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
3. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2004: Coordinate the fielding of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure equipment fielding is supported and accomplished per mission requirements and the references.

PERFORMANCE STEPS:
1. Validate equipment-fielding requirements.
2. Review fielding documents.
3. Direct the fielding efforts.
4. Direct placement of equipment into service.
5. Coordinate staff functions to determine priority of fielding.
6. Monitor completion of administrative functions.
7. Review technical information.

REFERENCES:
1. Local Policies/Procedures
2. Unit TO/E Table of Organization/Equipment
3. User's Logistics Support Summary (ULSS)
4. Fielding Plans

2102-ADMN-2005: Develop maintenance appendices for the logistics annex of operation orders

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an operation plan, Table of Organization & Equipment (T/O&E), automated systems with internet access, and other technical information.

STANDARD: To support all mission requirements of Marine Air Ground Task Force (MAGTF) operation.

PERFORMANCE STEPS:
1. Coordinate maintenance administration requirements.
2. Prepare maintenance support appendices for ground ordnance equipment.
3. Validate environmental compliance requirements.
4. Validate support equipment requirements based on the operation plan.
5. Determine operational requirements.
6. Validate assigned maintenance capabilities.
7. Validate support personnel requirements based on the operation plan.

REFERENCES:
1. UNIT T/O Table of Organization
2. Unit TO/E Table of Organization/Equipment
3. MCO P4790.2 Marine Corps Integrated Maintenance Management System (MIMMS)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2006: Manage maintenance information requirements for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: Ensure ground ordnance equipment information is completed per mission requirements and the references.

PERFORMANCE STEPS:
1. Validate maintenance information requirements.
2. Validate required output reports.
3. Monitor completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analysis of reports.
6. Direct corrective action.
7. Review message traffic for information concerning ground ordnance equipment.
8. Coordinate communications with adjacent/higher supporting agencies.

REFERENCES:
1. MCBUL 3000 MARES Logistics Reportable Equipment
2. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
5. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1, par 4002.

2102-ADMN-2007: Coordinate maintenance for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an operation plan, Table of Organization & Equipment (T/O&E), automated systems with internet access, and other technical information.

STANDARD: In order to support expeditionary maneuver warfare mission requirements.

PERFORMANCE STEPS:
1. Validate requirements in support of operational commanders.
2. Coordinate the validation of the operational commander's required maintenance.
3. Analyze readiness posture of deployed Marine Air Ground Task Forces (MAGTFs).
4. Coordinate the focus of ground ordnance equipment with higher/adjacent agencies in support of the maintenance effort.

REFERENCES:
1. MCWP 3-1 Ground Combat Operations
2. MCWP 4-1 Logistics Operations
3. MCWP 4-11 Tactical-Level Logistics

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2008: Monitor compliance with physical security programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records, and ground ordnance equipment storage facilities.

STANDARD: To ensure ground ordnance equipment is safeguarded from theft/tampering.

PERFORMANCE STEPS:
1. Validate security requirements.
2. Analyze the established security procedures for adequacy.
3. Monitor compliance with security requirements for facilities.
4. Ensure Ordnance personnel are security trained.
5. Ensure Arms Ammunition and Explosives (AA&E) personnel are screened.
6. Analyze effectiveness of security programs.

REFERENCES:
1. Local Policies/Procedures
2. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
3. MCO 5530.14 Marine Corps Physical Security Program Manual
4. OPNAVINST 5530.13C Physical Security and Loss Prevention

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2009: Manage ammunition control programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: MOJT

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), ammunition records, and personnel.

STANDARD: To ensure safety and accountability of ammunition requirements are maintained.

PERFORMANCE STEPS:
1. Validate ammunition requirements.
2. Register ammunition requirements.
3. Monitor safety of personnel.
4. Monitor ammunition-handling procedures.
5. Ensure completion of administrative functions.

REFERENCES:
1. Local Policies/Procedures
2. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
3. MCO 8010.1 Class V(W) SUP FMF CBT OP
4. MCO 8020.1 Handling, Transportation, Storage, Reclassification and Disposal of Class V(W) Material
5. MCO 8025.1 Malfunction and Deficiency Reporting
6. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This task applies to Ordnance Officers at the division and higher levels, to include aviation ordnance (Class V (A)) at Marine Expeditionary Forces.

2102-ADMN-2010: Monitor ground ordnance equipment corrective maintenance programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization (T/O&E), and equipment records.

STANDARD: To ensure corrective maintenance is accomplished per the mission requirements and references.

PERFORMANCE STEPS:
1. Monitor corrective maintenance requirements.
2. Monitor applicable maintenance procedures.
3. Monitor applicable reporting procedures.
4. Monitor quality control effectiveness.
5. Coordinate with adjacent/higher maintenance activities.
6. Coordinate staff actions relating to maintenance of ground ordnance equipment.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCBUL 3000 MARES Logistics Reportable Equipment
4. MCO 3000.11C Marine Ground Readiness Reporting
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

6. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
7. UNIT T/O Table of Organization
8. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2011: Monitor ground ordnance equipment Preventive Maintenance Checks and Services (PMCS) programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization (T/O&E), and equipment records.

STANDARD: To ensure preventive maintenance checks and services are accomplished per mission requirements.

PERFORMANCE STEPS:
1. Monitor Preventive Maintenance Checks and Services (PMCS) requirements.
2. Monitor cyclic maintenance requirements.
3. Monitor special maintenance requirements.
4. Monitor deferred maintenance requirements.
5. Monitor quality control (QC) procedures for PMCS programs.

REFERENCES:
1. Local Policies/Procedures
2. MCO 3000.11C Marine Ground Readiness Reporting
3. MCO 4400.82 MIMMS Controlled Item Management Manual
4. MCO P4400.82 MIMMS Controlled Item Management Manual
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
6. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2012: Monitor ground ordnance equipment maintenance resources

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization (T/O&E), equipment records, personnel, maintenance facility, and a budget.

STANDARD: To ensure that maintenance resources are focused on ordnance equipment readiness.

PERFORMANCE STEPS:
1. Validate required resources.
2. Prioritize available resources.
3. Plan employment of available resources.
4. Coordinate available resources with adjacent/higher agencies.
5. Provide recommendations on the assignment of all Occupational Field 21 personnel.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCBUL 3000 MARES Logistics Reportable Equipment
3. MCO P4790.2 MIMMS Field Procedures Manual
4. UNIT T/O Table of Organization
5. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2013: Monitor maintenance related programs for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization (T/O&E), and equipment records.

STANDARD: To ensure that maintenance related programs are employed per mission requirements.

PERFORMANCE STEPS:
1. Validate mission requirements.
2. Monitor Product Quality Deficiency Report (PQDR) program.
3. Monitor Corrosion Prevention and Control (CPAC) program.
4. Monitor a Quality Control (QC) program.
5. Monitor Depot Level Maintenance programs.
6. Monitor execution of Contract Logistics Support (CLS).
7. Monitor execution of warranty programs.
8. Monitor demilitarization procedures.
9. Validate Military Awards/Incentives programs submissions.
10. Assess life cycle management as Subject Matter Expert (SME).

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2014: Monitor ground ordnance equipment formal school training

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, personnel, personnel requirements, and mission requirements.

STANDARD: To ensure that personnel are adequately trained to meet mission requirements.

PERFORMANCE STEPS:
1. Validate requirements.
2. Coordinate formal Military Occupational Specialty (MOS) training with higher/adjacent agencies.
3. Coordinate executive level staff actions.
4. Analyze effectiveness of formal MOS training.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2015: Prepare correspondence messages relating to ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access and the information required to publish.

STANDARD: To ensure correspondence is completed per their mission requirements.

PERFORMANCE STEPS:
1. Prepare correspondence.
2. Prepare messages.
3. Prepare reports.
4. Prepare policy letters.
5. Review all correspondence submitted by subordinates.
6. Direct correspondence filing procedures.
7. Staff correspondence to higher/adjacent agencies.

REFERENCES:
1. Local Policies/Procedures
2. SECNAVINST 5216.5 Department of the Navy Correspondence Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1, par 4002.

2102-ADMN-2016: Review higher headquarters directives relating to ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access and the information required to publish.

STANDARD: To ensure policies and procedures contained in higher headquarters directives support mission requirements.

PERFORMANCE STEPS:
1. Determine applicability.
2. Recommend changes.
3. Analyze impact.
4. Analyze effectiveness of review.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1, par 4002.

2102-ADMN-2017: Establish major subordinate command-level inspection program for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5, CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, and the information required to publish.

STANDARD: To ensure that ground ordnance equipment related planning and organization are sound policies, complies with, and that readiness and capability are sustained to support mission requirements.

PERFORMANCE STEPS:
1. Validate effectiveness of maintenance related programs.
2. Validate compliance with directives.
3. Validate equipment readiness.
4. Analyze trend indicators.
5. Direct corrective action.
6. Analyze effectiveness of corrective action.

REFERENCES:
1. Local Policies/Procedures
2. MCO P4790.2 Marine Corps Integrated Maintenance Management System (MIMMS)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 4002.

2102-ADMN-2018: Perform Occupational Sponsor duties for ground ordnance equipment community

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MAJ, LTCOL

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, and Table of Organizations & Equipment (T/O&E).

STANDARD: To ensure proper management of Occupational Field 21 in support of Marine Corps mission.

PERFORMANCE STEPS:
1. Exercise oversight of occupational field specialties as the Subject Matter Expert (SME).
2. Participate in the combat development systems process.
3. Assist in managing grade structure for officers.
4. Assist in managing grade structure for enlisted Marines.

5. Coordinate with Total Force Structure Division in the conduct of structure reviews of all TO/E's.
6. Validate existing structure requirements.
7. Determine requisite manning levels necessary to adequately support MOS structure.
8. Interface with MCCDC, Training and Education Command, and formal schools.
9. Review training tracks and analyze career progression training to meet Marine Corps requirements.
10. Review Individual Training Standards.
11. Validate Training Input Plan.
12. Review Course Content Review Board initiatives.
13. Establish point of contact for occupational field 21 for Deputy Commandant for Manpower and Reserve Affairs.
14. Provide occupational field input to officer and enlisted plans section for grade shaping and accessions.
15. Screen LAT movers and additional MOS requests.
16. Coordinate with officer and enlisted assignments in regards to prerequisites, pending structure change, unique assignments requirements, and MOS briefs.

REFERENCES:

1. Applicable Equipment Technical Manuals
2. OPNAVINST 5530.13C Physical Security and Loss Prevention

GROUND ORD MAINT T&R MANUAL

CHAPTER 5

MOS 2110 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	5000	5-2
EVENT CODING	5001	5-2
ADMINISTRATIVE NOTES	5002	5-2
INDEX OF INDIVIDUAL EVENTS	5003	5-3
2000-LEVEL EVENTS	5004	5-4

CHAPTER 5

MOS 2110 INDIVIDUAL EVENTS

5000. PURPOSE. This chapter contains individual training events for the Ordnance Vehicle Maintenance Officer.

5001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2110). The second four digits represent the functional or duty area (ADMN, TECH). The last four digits represent the level, and identifier number of the event. This chapter contains only 2000 level events. Each individual event has an identifier number from 001 to 999.

5002. ADMINISTRATIVE NOTES

1. Various staff assignments will include but are not limited to Headquarters Marine Corps (HQMC), post, Bases, Stations, Divisions, Regiments, Battalions, and Companies. Due to the scope of duties and responsibilities at each level, the grade/rank structure will vary.

    a. Posts, Bases, Stations, Regiments, and Battalions – CWO3.

    b. Posts, Bases, Stations, and HQMC – CWO5.

2. Automated systems include CD-ROM, web based information and all applications of electronic media.

5003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	2000 LEVEL	
2110-ADMN-2001	Manage the unit ground ordnance maintenance operations	5-4
2110-ADMN-2002	Employ ground ordnance equipment maintenance management programs	5-5
2110-ADMN-2003	Manage ground ordnance equipment maintenance resources	5-6
2110-ADMN-2004	Manage technical information and directives for ground ordnance equipment	5-7
2110-ADMN-2005	Monitor maintenance shop-level MOS training	5-7
2110-ADMN-2006	Manage support equipment programs for ground ordnance	5-8
2110-ADMN-2007	Manage supply support procedures for ground ordnance equipment	5-9
2110-ADMN-2008	Manage ground ordnance maintenance facilities	5-10
2110-ADMN-2009	Manage maintenance production schedule for ground ordnance equipment	5-10
2110-ADMN-2010	Manage maintenance-related programs for ordnance equipment	5-11
2110-ADMN-2011	Manage preventive maintenance checks and services (PMCS) programs for ground ordnance	5-12
2110-ADMN-2012	Manage corrective maintenance program for ground ordnance	5-12
2110-ADMN-2013	Manage modification programs for ground ordnance equipment	5-13
2110-ADMN-2014	Monitor environmental compliance for ground ordnance	5-14
2110-ADMN-2015	Manage shop safety program	5-15
2110-ADMN-2016	Manage embarkation program for ground ordnance equipment	5-15
2110-ADMN-2017	Manage maintenance shop information requirements	5-16
2110-ADMN-2018	Prepare routine correspondence for ground ordnance equipment	5-17
2110-ADMN-2019	Manage physical security programs for ground ordnance equipment	5-17
2110-ADMN-2020	Assist in the fielding of ground ordnance equipment	5-18
2110-TECH-2021	Serve as technical advisor for the family of ground ordnance vehicles	5-19
2110-TECH-2022	Provide technical management for the repair of the family of ground ordnance vehicles	5-20
2110-TECH-2023	Perform duties as load test certification officer	5-21
2110-TECH-2024	Direct recovery operations for ground ordnance vehicles	5-22
2110-TECH-2025	Manage licensing program for ground ordnance vehicles	5-22
2110-TECH-2026	Manage the joint oil analysis program	5-23
2110-TECH-2027	Manage unit ammunition control program	5-24

5004. 2000-LEVEL INDIVIDUAL EVENTS

2110-ADMN-2001: Manage the unit ground ordnance maintenance operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), equipment records, and automated systems with internet access.

STANDARD: To ensure that ground ordnance equipment remains combat ready.

PERFORMANCE STEPS:
1. Determine mission requirements.
2. Prioritize ground ordnance equipment maintenance effort to maximize combat effectiveness.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. Applicable Equipment Technical Manuals
3. DOD DIR 4160.21 Defense Disposal Manual
4. Local Policies/Procedures
5. MCBUL 1200 Military Occupational Specialties Manual
6. MCBUL 3000 MARES Logistics Reportable Equipment
7. MCDP 4 Logistics
8. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
9. MCO 1553.3A Marine Corps Unit Training Management
10. MCO 1650.17F USMC Military Incentive Award Program
11. MCO 3000.11C Marine Ground Readiness Reporting
12. MCO 4030.33 Packaging of Material
13. MCO 4105.2 Marine Corps Warranty Program
14. MCO 4340-1A Reporting Lost or Stolen Government Property
15. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
16. MCO 4400.150 Consumer Level Supply Policy Manual
17. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
18. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
19. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
20. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
21. MCO 4855.10 Product Quality Deficiency Report (PQDR)
22. MCO 5100.29 Marine Corps Safety Program w/CH 1
23. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
24. MCO 5104.3 Marine Corps Radiation Safety Program
25. MCO 5215.1 The Marine Corps Directives System
26. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
27. MCO 5530.14 Marine Corps Physical Security Program Manual
28. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems

29. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
30. MCO P4400.105 Radioactive Commodities DOD System
31. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
32. MCO P4400.82 MIMMS Controlled Item Management Manual
33. MCO P4450.12 Storage and Handling of Hazardous Materials
34. MCO P4600.14 Transportation Fac Guide Vol 4
35. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
36. MCO P4790.2 MIMMS Field Procedures Manual
37. MCO P4790.2C MIMMS Field Procedures Manual
38. MCO P5090.2A Environmental Compliance and Protection Manual
39. MCO P5215.17 USMC Technical Publications System
40. MCO P5600.31G Marine Corps Publications and Printing Regulations
41. MCRP 3-0A Unit Training Management Guide
42. MCRP 3-0B How to Conduct Training
43. MCWP 3-1 Ground Combat Operations
44. MCWP 4-1 Logistics Operations
45. NAVFAC P-307 Management of Weight Handling Equipment
46. NAVSEATM-50420-AA-RAD-010
47. OPNAVINST 5530.13C Physical Security and Loss Prevention
48. OPNAVINST 5530.14 Physical Security and Loss Prevention
49. SECNAVINST 5216.5 Naval Correspondence Manual
50. SL-1-2 Index of Authorized Publication for Equipment Support
51. SL-1-3 Index of Authorized Publication for Equipment Support
52. TB MED 524 Control of Hazards to Health from Laser Radiation
53. TI-4733-15/1 Calibration Requirements
54. TI-4733-15/11F Infantry Weapons Gauge Calibration Exchange Program
55. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
56. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
57. UM 4400-124 FMF SASSY Using Unit Procedures
58. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
59. UM MCPDS Marine Corps Publications Distribution System Users Manual
60. UM-PLMS Publications Library Management System
61. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2002: Employ ground ordnance equipment maintenance management programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), equipment records and automated systems with internet access.

STANDARD: To ensure all applicable maintenance management programs are effectively and efficiently utilized.

PERFORMANCE STEPS:
1. Validate mission requirements.
2. Analyze capabilities.
3. Validate resource requirements.
4. Analyze external requirements.
5. Project future maintenance requirements.
6. Develop procedures utilizing functional areas of maintenance management.
7. Manage maintenance management programs.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCBUL 1200 Military Occupational Specialties Manual
4. MCO 3000.11C Marine Ground Readiness Reporting
5. MCO P4790.2 MIMMS Field Procedures Manual
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2003: Manage ground ordnance equipment maintenance resources

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E, equipment records, automated systems with internet access, personnel, maintenance facility, and a budget.

STANDARD: To ensure maintenance resources are focused on ordnance equipment readiness and are maintained in accordance with the commanders intent.

PERFORMANCE STEPS:
1. Determine required resources.
2. Prioritize available resources.
3. Plan employment of available resources.
4. Organize available resources.
5. Coordinate available resources.

REFERENCES:
1. Local Policies/Procedures
2. MCDP 4 Logistics
3. MCO 3000.11C Marine Ground Readiness Reporting
4. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
5. MCO 5215.1 The Marine Corps Directives System

6. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
7. MCO P4790.2 MIMMS Field Procedures Manual
8. MCO P5215.17 USMC Technical Publications System
9. MCO P5600.31G Marine Corps Publications and Printing Regulations
10. MCWP 4-1 Logistics Operations
11. Machinist Handbook
12. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
13. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2004: Manage technical information and directives for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and mission requirements.

STANDARD: To ensure the quantity, serviceability, and accountability of all information sources are maintained.

PERFORMANCE STEPS:
1. Manage publications control program.
2. Register requirements.
3. Validate requirements.

REFERENCES:
1. MCO 5215.1 The Marine Corps Directives System
2. MCO P4790.2 MIMMS Field Procedures Manual
3. MCO P5600.31G Marine Corps Publications and Printing Regulations
4. SL-1-2 Index of Authorized Publication for Equipment Support
5. SL-1-3 Index of Authorized Publication for Equipment Support
6. UM-PLMS Publications Library Management System
7. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2005: Monitor maintenance shop-level MOS training

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, mission requirements, and personnel records.

STANDARD: To ensure Ordnance maintenance personnel are properly trained to meet mission requirements.

PERFORMANCE STEPS:
1. Validate requirements.
2. Coordinate MOS training.
3. Direct MOS training.
4. Analyze MOS training effectiveness.

REFERENCES:
1. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
2. MCO 1553.3A Marine Corps Unit Training Management
3. MCO P4790.2 MIMMS Field Procedures Manual
4. MCWP 4-1 Logistics Operations
5. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2006: Manage support equipment programs for ground ordnance

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure support equipment is properly utilized and maintained.

PERFORMANCE STEPS:
1. Validate requirements.
2. Ensure control procedures are established.
3. Ensure Preventive Maintenance Checks and Services (PMCS) is conducted.
4. Ensure corrective maintenance is conducted.
5. Analyze effectiveness of support programs.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
4. MCO P4790.2 MIMMS Field Procedures Manual
5. TI-4733-15/1 Calibration Requirements

6. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
7. TI-4733-15/1D TMDE Calibration & Maintenance Program
8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002. The term support equipment includes but is not limited to tool sets, kits, chests, hoists, jacks, stands, and TMDE (calibration equipment).

2110-ADMN-2007: Manage supply support procedures for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, mission requirements, and unit budget.

STANDARD: To ensure proper supply procedures are adhered to per the mission requirements.

PERFORMANCE STEPS:
1. Validate supply support requirements.
2. Coordinate requisition procedures.
3. Direct the accountability of all repair parts.
4. Direct validation procedures.
5. Direct reconciliation procedures.
6. Coordinate with internal supply support agencies.
7. Coordinate with external supply support agencies.
8. Validate budget requirements.

REFERENCES:
1. Local Policies/Procedures
2. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
3. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
4. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
5. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
6. MCO P4400.82 MIMMS Controlled Item Management Manual
7. MCO P4790.2 MIMMS Field Procedures Manual
8. TM 4700-15/1 Equipment Record Procedures
9. UM 4400-124 FMF SASSY Using Unit Procedures
10. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2008: Manage ground ordnance maintenance facilities

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, mission requirements, and maintenance facilities.

STANDARD: To ensure maintenance facilities are effectively and efficiently utilized and maintained per the mission requirements.

PERFORMANCE STEPS:
1. Validate requirements.
2. Validate maintenance flow plan.
3. Validate facilities to support mission.
4. Validate operational risk management procedures.
5. Prioritize use of facilities.
6. Ensure facilities are maintained.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. MCO P4790.2 MIMMS Field Procedures Manual
4. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2009: Manage maintenance production schedule for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, automated reports, equipment records, and maintenance resources.

STANDARD: To ensure maintenance production flow is accomplished per the mission requirements and resources.

PERFORMANCE STEPS:
1. Validate production capability.
2. Prioritize maintenance effort.

3. Validate available resources.
4. Analyze quality control effectiveness.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCBUL 3000 MARES Logistics Reportable Equipment
4. MCO 3000.11C Marine Ground Readiness Reporting
5. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2010: Manage maintenance-related programs for ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure maintenance related programs are effectively employed per the mission requirements.

PERFORMANCE STEPS:
1. Validate mission requirements.
2. Manage Product Quality Deficiency Report (PQDR) program.
3. Manage Corrosion Prevention and Control (CPAC) program.
4. Manage a Quality Control (QC) program.
5. Manage unit level execution of Depot Level Maintenance programs.
6. Manage execution of Contract Logistics Support (CLS).
7. Manage execution of warranty programs.
8. Manage demilitarization procedures.
9. Manage Military Awards/Incentives Program.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. DOD DIR 4160.21 Defense Disposal Manual
3. MCBUL 3000 MARES Logistics Reportable Equipment
4. MCO 4105.2 Marine Corps Warranty Program
5. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
6. MCO 4855.10 Product Quality Deficiency Report (PQDR)
7. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
8. MCO P4790.2 MIMMS Field Procedures Manual
9. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
10. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2011: Manage preventive maintenance checks and services (PMCS) programs for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure preventive maintenance checks and services are properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate PMCS requirements.
2. Validate cyclic maintenance requirements.
3. Validate special maintenance requirements.
4. Validate deferred maintenance requirements.
5. Validate PMCS schedule.
6. Manage documentation of PMCS program.
7. Manage Quality Control (QC) procedures for PMCS program.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCBUL 3000 MARES Logistics Reportable Equipment
4. MCO 3000.11C Marine Ground Readiness Reporting
5. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
6. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
7. MCO P4790.2 MIMMS Field Procedures Manual
8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
9. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2012: Manage corrective maintenance program for ground ordnance

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure corrective maintenance is accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate corrective maintenance requirements.
2. Monitor applicable maintenance procedures.
3. Monitor applicable reporting procedures.
4. Analyze quality control effectiveness.
5. Coordinate with external maintenance activities.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCBUL 3000 MARES Logistics Reportable Equipment
4. MCO 3000.11C Marine Ground Readiness Reporting
5. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
6. MCO 4400.82 MIMMS Controlled Item Management Manual
7. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
8. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
9. MCO P4790.2 MIMMS Field Procedures Manual
10. TM 4700-15/1 Equipment Record Procedures
11. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2013: Manage modification programs for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure equipment modifications are effectively accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate equipment-requiring modification.
2. Monitor modification program.
3. Verify completion of administrative requirements.
4. Analyze modification program effectiveness.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2014: Monitor environmental compliance for ground ordnance

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: To ensure environmental compliance procedures are observed per the mission requirements.

PERFORMANCE STEPS:
1. Validate environmental compliance requirements.
2. Coordinate with unit environmental compliance representative.
3. Direct corrective actions.
4. Analyze effectiveness of program.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.105 Radioactive Commodities DOD System
6. MCO P4790.2 MIMMS Field Procedures Manual
7. MCO P5090.2A Environmental Compliance and Protection Manual
8. NAVSEATM-50420-AA-RAD-010
9. TB MED 524 Control of Hazards to Health from Laser Radiation
10. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002. This area of environment compliance encompasses but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC) Licenses, Material Safety Data Sheets (MSDS).

2110-ADMN-2015: Manage shop safety program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, and a maintenance facility.

STANDARD: To ensure shop safety practices are observed per the mission requirements.

PERFORMANCE STEPS:
1. Validate safety program requirements.
2. Supervise compliance with shop safety procedures.
3. Direct corrective actions.
4. Analyze effectiveness of program.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.105 Radioactive Commodities DOD System
6. MCO P4450.12 Storage and Handling of Hazardous Materials
7. MCO P4790.2 MIMMS Field Procedures Manual
8. MCO P5090.2A Environmental Compliance and Protection Manual
9. TB MED 524 Control of Hazards to Health from Laser Radiation
10. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002. This area of safety encompasses all aspects of ground safety, which includes but is not limited to the following areas of concern: radiation safety, laser safety, Occupational Safety & Health administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery rooms, Personal Protective Equipment (PPE), heat conditions, fire protection, medical surveillance programs, and industrial hygiene.

2110-ADMN-2016: Manage embarkation program for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure ordnance equipment is embarked per the mission requirements.

PERFORMANCE STEPS:
1. Validate embarkation requirements.
2. Ensure that requirements are documented.
3. Coordinate with embarkation personnel.
4. Manage the preparation of equipment for embark.

REFERENCES:
1. MCO 4030.33 Packaging of Material
2. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
3. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
4. MCO P4600.14 Transportation Fac Guide Vol 4
5. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2017: Manage maintenance shop information requirements

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E, automated systems with internet access, and equipment records.

STANDARD: To ensure ordnance equipment information is completed per the mission requirements.

PERFORMANCE STEPS:
1. Validate maintenance information requirements.
2. Validate required output reports.
3. Manage completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analysis of reports.
6. Direct corrective action.
7. Review message traffic for information concerning ground ordnance equipment.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCO P4790.2 MIMMS Field Procedures Manual
4. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002. This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems, MIMMS (AIS), Asset Tracking Logistics, Supply System I (ATLASS I), and Defense Message System (DMS).

2110-ADMN-2018: Prepare routine correspondence for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access and the information required to be published.

STANDARD: To ensure routine correspondence, messages, reports, staff papers, and policy letters are properly completed per the mission requirements.

PERFORMANCE STEPS:
1. Prepare correspondence.
2. Prepare messages.
3. Prepare reports.
4. Prepare staff papers.
5. Prepare policy letters.
6. Review all correspondence submitted by subordinates.
7. Direct correspondence filing procedures.
8. Staff correspondence to higher and adjacent agencies.

REFERENCES:
1. Local Policies/Procedures
2. MCO P1070.12 Individual Records Administration Manual (IRAM)
3. MCWP 3-1 Ground Combat Operations
4. SECNAVINST 5216.5 Naval Correspondence Manual
5. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2019: Manage physical security programs for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment, equipment records, and ground ordnance equipment storage facilities.

STANDARD: To ensure ground ordnance equipment is safeguarded from theft/tampering.

PERFORMANCE STEPS:
1. Validate security requirements.
2. Analyze the established security procedures for adequacy.
3. Validate compliance of security requirements for facilities.
4. Ensure personnel are security trained.
5. Conduct AA&E personnel screenings.
6. Analyze effectiveness of security programs.

REFERENCES:
1. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
2. MCO 5530.14 Marine Corps Physical Security Program Manual
3. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
4. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
5. OPNAVINST 5530.13C Physical Security and Loss Prevention
6. OPNAVINST 5530.14 Physical Security and Loss Prevention
7. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-ADMN-2020: Assist in the fielding of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure proper placement of equipment per the mission requirements.

PERFORMANCE STEPS:
1. Validate equipment-fielding requirements.
2. Review fielding documents.
3. Assist in fielding plan.
4. Coordinate placement of equipment into service.
5. Coordinate staff functions to determine priority of fielding.
6. Monitor completion of administrative functions.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO 4400.82 MIMMS Controlled Item Management Manual
3. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
4. MCO P4790.2 MIMMS Field Procedures Manual
5. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-TECH-2021: Serve as technical advisor for the family of ground ordnance vehicles

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with guidance and command philosophy from the Commanding Officer and his staff.

STANDARD: To ensure unit readiness is sustained at an acceptable level and that recommendations are provided to the Commanding Officer regarding operations and maintenance of ground ordnance equipment.

PERFORMANCE STEPS:
1. Prepare information on matters relating to ordnance vehicles.
2. provide guidance on matters relating to ordnance vehicles.
3. Provide recommendations on matters relating to ordnance vehicles.
4. Conduct internal reviews.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD DIR 4160.21 Defense Disposal Manual
3. Local Policies/Procedures
4. MCBUL 1200 Military Occupational Specialties Manual
5. MCBUL 3000 MARES Logistics Reportable Equipment
6. MCDP 4 Logistics
7. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
8. MCO 1553.3A Marine Corps Unit Training Management
9. MCO 3000.11C Marine Ground Readiness Reporting
10. MCO 4030.33 Packaging of Material
11. MCO 4105.2 Marine Corps Warranty Program
12. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
13. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
14. MCO 4400.82 MIMMS Controlled Item Management Manual
15. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
16. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
17. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program

18. MCO 4855.10 Product Quality Deficiency Report (PQDR)
19. MCO 5100.29 Marine Corps Safety Program w/CH 1
20. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
21. MCO 5104.3 Marine Corps Radiation Safety Program
22. MCO 5215.1 The Marine Corps Directives System
23. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
24. MCO 5530.14 Marine Corps Physical Security Program Manual
25. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
26. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
27. MCO P4400.105 Radioactive Commodities DOD System
28. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
29. MCO P4600.14 Transportation Fac Guide Vol 4
30. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
31. MCO P4790.2 MIMMS Field Procedures Manual
32. MCO P4790.2C MIMMS Field Procedures Manual
33. MCO P4790.3 MIMMS Depot Policy Manual
34. MCO P5090.2A Environmental Compliance and Protection Manual
35. MCO P5600.31G Marine Corps Publications and Printing Regulations
36. MCRP 3-0A Unit Training Management Guide
37. MCRP 3-0B How to Conduct Training
38. MCWP 3-1 Ground Combat Operations
39. MCWP 4-1 Logistics Operations
40. NAVFAC P-307 Management of Weight Handling Equipment
41. NAVSEATM-50420-AA-RAD-010
42. OPNAVINST 5530.13C Physical Security and Loss Prevention
43. OPNAVINST 5530.14 Physical Security and Loss Prevention
44. SECNAVINST 5216.5 Naval Correspondence Manual
45. SL-1-2 Index of Authorized Publication for Equipment Support
46. SL-1-3 Index of Authorized Publication for Equipment Support
47. TB MED 524 Control of Hazards to Health from Laser Radiation
48. TI-4733-15/1 Calibration Requirements
49. TI-4733-15/11F Infantry Weapons Gauge Calibration Exchange Program
50. TM 4700-15/1 Equipment Record Procedures
51. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
52. UM 4400-124 FMF SASSY Using Unit Procedures
53. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
54. UM MCPDS Marine Corps Publications Distribution System Users Manual
55. UM-PLMS Publications Library Management System
56. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-TECH-2022: Provide technical management for the repair of the family of ground ordnance vehicles

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment, equipment records, personnel, personnel records, and references.

STANDARD: Ensure maintenance of ordnance vehicles is accomplished per the mission requirements and references.

PERFORMANCE STEPS:
1. Identify requirements.
2. Validate requirements.
3. Validate deficiencies.
4. Direct maintenance solutions.
5. Manage maintenance effort.
6. Manage maintenance personnel.
7. Ensure safety of personnel.
8. Analyze effectiveness of administrative functions.
9. Focus ground ordnance equipment maintenance efforts to maximize combat effectiveness.

REFERENCES:
1. MCO P4790.2C MIMMS Field Procedures Manual
2. MCWP 4-11 Tactical-Level Logistics

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-TECH-2023: Perform duties as load test certification officer

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment, and equipment records.

STANDARD: To ensure load testing is properly conducted, certified, and maintained per the mission requirements.

PERFORMANCE STEPS:
1. Validate load test condition inspection requirements.
2. Establish a load test certification schedule.
3. Certify annual condition inspections.
4. Assign test director.
5. Assign test inspectors.
6. Coordinate load testing with supporting agencies.
7. Analyze effectiveness of administrative functions.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. NAVFAC P-307 Management of Weight Handling Equipment
4. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-TECH-2024: Direct recovery operations for ground ordnance vehicles

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment, and equipment records.

STANDARD: To ensure recovery of vehicle is safely accomplished.

PERFORMANCE STEPS:
1. Supervise recovery training.
2. Validate recovery requirements.
3. Validate Battle Damage Assessment and Repair (BDAR).
4. Validate ORM for recovery.
5. Provide technical guidance to the commander for recovery operations.
6. Supervise recovery operations.
7. Analyze effectiveness of administrative functions.
8. Analyze recovery operations effectiveness.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. MCRP 4-11.4A Recovery and Battlefield Damage Assessment and Repair
3. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-TECH-2025: Manage licensing program for ground ordnance vehicles

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment, and personnel records.

STANDARD: To ensure required personnel are properly trained and licensed per the mission requirements.

PERFORMANCE STEPS:
1. Validate licensing requirements.
2. Maintain the licensing program.
3. Validate ORM.
4. Analyze effectiveness of licensing program.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-TECH-2026: Manage the joint oil analysis program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, equipment records, and NAVMC 10561.

STANDARD: To ensure oil analysis is properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate equipment requiring oil analysis.
2. Analyze results.
3. Direct corrective action.
4. Analyze effectiveness of administrative functions.

REFERENCES:
1. MCO P4790.2C MIMMS Field Procedures Manual
2. TI-4731-14/1C MC Joint Oil Analysis Program
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

2110-TECH-2027: Manage unit ammunition control program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, ammunition, and personnel ammunition records.

STANDARD: To ensure ammunition requirements are sustained per the mission requirements.

PERFORMANCE STEPS:
1. Validate ammunition requirements.
2. Register ammunition requirements.
3. Ensure safety of personnel.
4. Ensure ammunition-handling procedures are adhered to.
5. Ensure ammunition accountability is adhered to.
6. Ensure completion of administrative functions.
7. Monitor explosive drivers certification.

REFERENCES:
1. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
2. MCO 8010.1 Class V(W) SUP FMF CBT OP
3. MCO 8020.1 Handling, Transportation, Storage, Reclassification and Disposal of Class V(W) Material
4. MCO 8025.1 Malfunction and Deficiency Reporting
5. UM 4400-15 Marine Corps User Manual (Organic Property Control)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 5002.

GROUND ORD MAINT T&R MANUAL

CHAPTER 6

MOS 2111 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	6000	6-2
EVENT CODING	6001	6-2
ADMINISTRATIVE NOTES	6002	6-2
INDEX OF INDIVIDUAL EVENTS	6003	6-3
1000-LEVEL EVENTS	6004	6-4
2000-LEVEL EVENTS	6005	6-22

CHAPTER 6

MOS 2111 INDIVIDUAL EVENTS

6000. PURPOSE. This chapter contains individual training events for the Small Arms Repairer/Technician.

6001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2111). The second four digits represent the functional or duty area: Administrative Functions (ADMN), Security Functions (SCTY), and Weapons Maintenance (WPNS). The last four digits represent the level, and identifier number of the event. This chapter contains 1000 and 2000 level events. Each individual event has an identifier number from 001 to 999.

6002. ADMINISTRATIVE NOTES

1. Maintenance and/or repairs are limited to authorized echelons of maintenance.

2. Automated systems include CD-ROM, Web-based information and all applications of electronic media.

6003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	1000-LEVEL	
2111-ADMN-1001	Follow basic shop procedures	6-4
2111-ADMN-1002	Follow basic maintenance procedures	6-4
2111-ADMN-1003	Maintain maintenance management training program	6-5
2111-ADMN-1004	Maintain maintenance records and reports	6-5
2111-ADMN-1005	Comply with radiological program	6-6
2111-SCTY-1006	Secure weapons during transportation	6-7
2111-SCTY-1007	Secure personally owned weapons and ammunition	6-7
2111-SCTY-1008	Perform armory procedures	6-8
2111-SCTY-1009	Maintain armory physical security	6-8
2111-WPNS-1010	Maintain armory support equipment	6-9
2111-WPNS-1011	Maintain M9 9MM semiautomatic pistol	6-10
2111-WPNS-1012	Maintain 12 gauge series shotguns	6-11
2111-WPNS-1013	Maintain 5. 56MM service rifle	6-11
2111-WPNS-1014	Maintain .50 caliber special application scope rifle	6-12
2111-WPNS-1015	Maintain M203 40MM grenade launcher	6-12
2111-WPNS-1016	Maintain M1911A1 .45 caliber MEU (SOC) pistol	6-13
2111-WPNS-1017	Maintain M249 5.56MM squad automatic weapon (SAW)	6-14
2111-WPNS-1018	Maintain M240 series 7.62MM machine guns	6-15
2111-WPNS-1019	Maintain all variants of .50 caliber machine gun	6-15
2111-WPNS-1020	Maintain machine gun mounts	6-16
2111-WPNS-1021	Maintain MK19 40MM machine gun variants	6-16
2111-WPNS-1022	Maintain MK 153 83MM rocket launcher	6-17
2111-WPNS-1023	Maintain M224 60MM mortar with bipod and base plates	6-18
2111-WPNS-1024	Maintain M252 81MM mortar with bipod and base plate	6-18
2111-WPNS-1025	Maintain ground ordnance optical devices	6-19
2111-WPNS-1026	Maintain M40 series sniper rifle	6-20
2111-WPNS-1027	Maintain 7.62MM M14 designated marksman rifle (DMR)	6-20
2111-WPNS-1028	Maintain M82A3	6-21
	2000-LEVEL	
2111-ADMN-2001	Maintain armory functional areas	6-22
2111-ADMN-2002	Maintain maintenance transaction report	6-22
2111-ADMN-2003	Maintain armory publication and directive program	6-23

6004. 1000-LEVEL INDIVIDUAL EVENTS

2111-ADMN-1001: Follow basic shop procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given common tools, power tools, precision measuring tools, current authorized technical information, and automated systems with internet access.

STANDARD: In order to maintain a safe and efficient work area for the accomplishment of maintenance assignments.

PERFORMANCE STEPS:
1. Organize tools and equipment within work area.
2. Follow instructions for care of tools.
3. Comply with safety regulations.
4. Comply with hazardous material regulations.
5. Comply with LASER safety procedures.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5 DOD Hazard Communication Program
3. FM 9-243 Use and Care of Hand Tools and Measuring Tools
4. Local Policies/Procedures
5. MCO P5090.2A Environmental Compliance and Protection Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administration Notes #2, par 6002. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must: (1) have been provided information and training to work with the hazardous chemical prior to their initial assignment; (2) have access to label information and material safety data sheets to understand the hazard(s), and (3) be able to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

2111-ADMN-1002: Follow basic maintenance procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment repair records and forms.

STANDARD: In order to validate equipment serviceability and completion of maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Utilize required publications and directives.
2. Adhere to Modification Instructions.
3. Adhere to Calibration procedures.
4. Complete maintenance management forms needed to document work.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
3. MCO P4790.2 MIMMS Field Procedures Manual
4. MCO P5215.17 USMC Technical Publications System
5. SL-1-2 Index of Authorized Publication for Equipment Support
6. SL-1-3 Index of Authorized Publication for Equipment Support
7. TI-4733-15/1 Calibration Requirements
8. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
9. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
10. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Current MCI (s): MCI 04.10, MIMMS-AIS (Maintenance Automated Information System).

2111-ADMN-1003: Maintain maintenance management training program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given training records and schedules.

STANDARD: To ensure training is properly conducted and documented.

PERFORMANCE STEPS:
1. Maintain maintenance management administrative training.
2. Schedule technical maintenance training.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO P4790.2 MIMMS Field Procedures Manual

2111-ADMN-1004: Maintain maintenance records and reports

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provide various maintenance reports and records.

STANDARD: To ensure records and reports contain the correct information and are properly processed.

PERFORMANCE STEPS:
1. Review Daily Process Report (DPR).
2. Review Daily Transaction Listing.
3. Review Table of Authorized Material (TAM) report.
4. Initiate corrective action for errors on all MIMMS reports.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual

2111-ADMN-1005: Comply with radiological program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given radiological material, applicable current authorized technical information, and automated systems with internet access in a garrison or field environment.

STANDARD: Ensuring all assets containing radiological material are stored, used and maintained safely to prevent accidents which may result from exposure to tritium or other radiological sources in a garrison or field environment.

PERFORMANCE STEPS:
1. Identify in hand assets containing radiological material.
2. Utilize required/recommended handling protection when working with unserviceable assets containing radiological material.

REFERENCES:
1. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
2. MCO 5104.2 Marine Corps Radiofrequency Electromagnetic Field Personnel Protection Program
3. MCO P4400.105 Radioactive Commodities DOD System
4. NAVSEATM-50420-AA-RAD-010
5. TI-5104-15/2 Special Handling of Tritium Fire Control Instruments
6. TI-5104-15/2A spl handl tritium fire control

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes #2, par 6002.

2111-SCTY-1006: Secure weapons during transportation

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given weapons and ammunition requiring transportation to/from an armory, current authorized technical information, and automated systems with internet access.

STANDARD: Ensuring weapons security is accomplished accurately and safely.

PERFORMANCE STEPS:
1. Verify that the units picking up or delivering weapons/ammunition have adequate armed guards.
2. Ensure security discrepancies are corrected prior to allowing weapons/ammunition to leave the armory.
3. Report all security violations through the chain of command.

REFERENCES:
1. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes #2, par 6002.

2111-SCTY-1007: Secure personally owned weapons and ammunition

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an armory facility, personally owned weapons and/or ammunition, current authorized technical information, and automated systems with internet access.

STANDARD: Ensuring personally owned weapons and ammunition are safely and securely maintained.

PERFORMANCE STEPS:
1. Provide safe storage.
2. Establish appropriate procedures for issue and recovery of personally owned weapons and ammunition.
3. Complete proper documentation for personally owned weapons and ammunition.
4. Accurately annotate brand name and condition of all privately owned gear turned in.

REFERENCES:
1. Local Policies/Procedures
2. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
3. OPNAVINST 5530.13C Physical Security and Loss Prevention

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes #32, par 6002.

2111-SCTY-1008: Perform armory procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an armory, equipment, personnel, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure armory contents are properly maintained and accounted for.

PERFORMANCE STEPS:
1. Ensure security ammunition is properly stored.
2. Ensure security ammunition is properly issued and recovered.
3. Complete required accountability inventories for armory AA&E.
4. Complete required armory NAVMC forms and records.
5. Physically issue/recovery AA&E assets.
6. Comply with armory security procedures
7. Maintain armory desktop procedures.

REFERENCES:
1. Local Policies/Procedures
2. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
3. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
4. MCO P4790.2 MIMMS Field Procedures Manual
5. OPNAVINST 5530.13C Physical Security and Loss Prevention
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2111-SCTY-1009: Maintain armory physical security

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an armory, current authorized technical information, and automated systems with internet access and security ammunition in a garrison or field environment.

STANDARD: To ensure armory contents are properly maintained and accounted for.

PERFORMANCE STEPS:
1. Identify physical security requirements.
2. Evaluate physical security references.
3. Enforce physical security procedures.
4. Maintain Arms, Ammunition & Explosives (AA&E) screenings records.
5. Ensure accountability of (AA&E) within Armory.
6. Correct noted discrepancies.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
4. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
5. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
6. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
7. OPNAVINST 5530.13C Physical Security and Loss Prevention
8. OPNAVINST 5530.14 Physical Security and Loss Prevention

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes #2, par 6002.

2111-WPNS-1010: Maintain armory support equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, cleaning materials, applicable current authorized technical information, references, and automated systems with internet access in a garrison or field environment.

STANDARD: To ensure armory support equipment is serviceable and ready for use.

PERFORMANCE STEPS:
1. Inspect/Use/Maintain tools.
2. Inspect/Use/Maintain test equipment.
3. Inspect/Use/Maintain pullover gage kit.
4. Inspect/Use/Maintain M3 bore scope.
5. Inspect/Use/Maintain Test Set Electrical Systems TS-4348.

6. Inventory kits, sets, chests and equipment and complete forms.
7. Requisition required items with supporting supply source.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO P5090.2A Environmental Compliance and Protection Manual
3. SC 518-95-CL-A07 SMALL ARMS REPAIRER TOOL KIT
4. SL-3-00607A TOOL KIT, SMALL ARMS REPAIRER
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
6. TM 9-243 Common Tools Manual
7. TM 9-4933-258-13&P PULLOVER GAGE KIT
8. TM 9-6650-235-13&P M3 Bore scope

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1011: Maintain M9 9MM semiautomatic pistol

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING:

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure pistols are fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform scheduled preventive maintenance checks and services (PMCS).
5. Identify/Isolate problem.
6. Repair/Replace unserviceable parts and/or components.
7. Secure/Store weapon.
8. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 1005A-23&P/2A Pistol Semiautomatic 9MM M9
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1012: Maintain 12 gauge series shotguns

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure shotgun is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts and/or components.
8. Secure/Store weapon.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TB 9-1000-247-34 Overseas Shipment of Small Arms
2. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1013: Maintain 5. 56MM service rifle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure 5.56MM service rifle is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.

7. Repair/Replace unserviceable parts and/or components.
8. Secure/Store weapon.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002. The 5.56MM Service Rifle includes but, is not limited to the M16A2 and M4 series.

2111-WPNS-1014: Maintain .50 caliber special application scope rifle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure M82A1A caliber scoped rifle is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts and/or components.
8. Secure/Store weapon.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1015: Maintain M203 40MM grenade launcher

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: Ensure M203 grenade launcher is fully operational per the reference.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts and/or components.
8. Secure/Store weapon.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TB 9-1000-247-34 Overseas Shipment of Small Arms
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
3. TM 9-1010-221-24&P M203 Grenade Launcher

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1016: Maintain M1911A1 .45 caliber MEU (SOC) pistol

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure M1911A1 .45 caliber MEU (SOC) pistol is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts and/or components.

8. Secure/Store weapon.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 00526A-24&P/2 Pistol Caliber .45 MEU (SOC)
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1017: Maintain M249 5. 56MM squad automatic weapon (SAW)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure M249 5. 56MM squad automatic weapon (SAW) is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts and/or components.
8. Secure/Store weapon.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TB 9-1000-247-34 Overseas Shipment of Small Arms
2. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 08671A-23&P/2A Machine Gun 5.56MM M249
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1018: Maintain M240 series 7 . 62MM machine guns

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure M240 machine gun is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts and/or components.
8. Secure/Store weapon.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TB 9-1000-247-34 Overseas Shipment of Small Arms
2. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1019: Maintain all variants of .50 caliber machine gun

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure .50 caliber machine gun is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts and/or components.

8. Secure/Store weapon.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TB 9-1000-247-34 Overseas Shipment of Small Arms
2. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 02498A-23&P M2 Gun, Machine
4. TM 10152A-24&P M3P 50 Caliber Machine Gun
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1020: Maintain machine gun mounts

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure tripod mount is fully operational.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Perform scheduled preventive maintenance checks and services (PMCS).
3. Repair/Replace unserviceable parts.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
2. TM 9-1005-13&P/1 Machine Gun Mounts

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1021: Maintain MK19 40MM machine gun variants

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools applicable current authorized technical information automated systems with internet access in a garrison or field environment.

STANDARD: To ensure all variants of the MK19 40MM are fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts and/or components.
8. Secure/Store weapon.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. TB 9-1000-247-34 Overseas Shipment of Small Arms
3. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
4. TM 08521A-23&P/2A Machine Gun 40MM MK19 MOD 3
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002. The MK19 variants include MK19 MOD 3 and the variant for the AAV-P7 (A1).

2111-WPNS-1022: Maintain MK 153 83MM rocket launcher

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure MK 153 83MM rocket launcher is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Bore sight weapon.
6. Perform scheduled preventive maintenance checks and services (PMCS).
7. Identify/Isolate problem.
8. Repair/Replace unserviceable parts and/or components.

9. Secure/Store weapon.
10. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 08673A-25&P/2A Launcher, Assault Rocket 83MM (SMAW)
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1023: Maintain M224 60MM mortar with bipod and base plates

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure M224 is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Perform bore scope procedure.
7. Perform rollover gage procedure.
8. Identify/Isolate problem.
9. Repair/Replace unserviceable parts and/or components.
10. Secure/Store weapon.
11. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
3. TM 9-1000-202-14 Cannon Tube Evaluation

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1024: Maintain M252 81MM mortar with bipod and base plate

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure M252 mortar is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform pre-fire inspection (PFI).
3. Perform limited technical inspection (LTI)
4. Perform scheduled preventive maintenance checks and services (PMCS).
5. Perform bore scope procedure.
6. Perform rollover gage procedure.
7. Identify/Isolate problem.
8. Repair/Replace unserviceable parts and/or components.
9. Secure/Store weapon.
10. Complete required maintenance and/or administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
3. TM 9-1000-202-14 Cannon Tube Evaluation

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1025: Maintain ground ordnance optical devices

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given optical equipment, current authorized technical information, and automated systems with internet access in a garrison or field environment.

STANDARD: To ensure ground ordnance optical devices are serviceable.

PERFORMANCE STEPS:
1. Perform operations check.
2. Perform scheduled preventive maintenance checks and services (PMCS) on optical devices.
3. Repair/Replace unserviceable parts.
4. Secure/Store weapon.
5. Complete required maintenance and/or administrative forms and records.

REFERENCES:
1. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002. The FLC instructs the following optical systems AN/PVS-7, AN/PVS-14, AN/PVS-4, AN/TVS-5, laser bore sight, M49 observations telescope, compass, and binoculars.

2111-WPNS-1026: Maintain M40 series sniper rifle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable equipment, assigned tools, applicable current authorized technical information, automated systems with internet access in a garrison or field environment.

STANDARD: To ensure M40 Series Sniper rifle is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Secure/Store weapon.
7. Complete required maintenance and/or administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 05539C-23&P M40A1 SNIPER RIFLE 7.26
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

2111-WPNS-1027: Maintain 7.62MM M14 designated marksman rifle (DMR)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment, tools, applicable current authorized technical information, and automated systems with internet access in a garrison or field environment.

STANDARD: To ensure Designated Marksman Rifle (DMR) is fully operational.

PERFORMANCE STEPS:
1. Clear weapon.
2. Perform function check.
3. Perform pre-fire inspection (PFI).
4. Perform limited technical inspection (LTI).
5. Perform scheduled preventive maintenance checks and services (PMCS).
6. Identify/Isolate problem.
7. Repair/Replace unserviceable parts.
8. Secure/Store weapon.
9. Complete required maintenance and/or administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes #2, par 6002. Maintenance and/or repairs limited to 2nd echelon of maintenance for MOS 2111; MOS 2112 performs all 3rd echelon of maintenance and above.

2111-WPNS-1028: Maintain M82A3

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M82A3, tool box, and M82A3 inspection checklist.

STANDARD: To ensure weapon is fully operational per the inspection checklist.

PERFORMANCE STEPS:
1. Inspect each item according to the checklist.
2. Complete all required forms/records.

REFERENCES:
1. TM 09629A-23&P/2A SASR, 50 CALIBER M82A1A

6005. 2000-LEVEL INDIVIDUAL EVENTS

2111-ADMN-2001: Maintain armory functional areas

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an armory, current technical information, automated systems with internet access, security ammunition, and personnel, in a field or garrison environment.

STANDARD: To ensure functional areas are maintained safely, efficiently and effectively to accomplish mission requirements.

PERFORMANCE STEPS:
1. Maintain calibrations control program.
2. Maintain tool control program.
3. Maintain desktop/turnover procedures.
4. Maintain modification control program.
5. Maintain preventive maintenance program.
6. Maintain corrective maintenance program.
7. Maintain quality control program.
8. Maintain training program.
9. Maintain embark program.
10. Apply armory operational risk management (ORM).

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
3. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
4. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
5. MCO P4790.2 MIMMS Field Procedures Manual
6. TI-4733-15/1 Calibration Requirements
7. TI-4733-15/11F Infantry Weapons Gauge Calibration Exchange Program
8. TI-4733-15/1D TMDE Calibration & Maintenance Program
9. TI-4733-15/1D TMDE Calibration & Maintenance Program
10. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
11. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1, par 6002.

2111-ADMN-2002: Maintain maintenance transaction report.

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given current technical information, and automated systems with internet access, in a field or garrison environment.

STANDARD: To ensure armory transactions reports are updated in an accurate and timely manner.

PERFORMANCE STEPS:
1. Analyze DPR.
2. Verify transactions on the DTL.
3. Verify exception reports.
4. Verify LM2 report.
5. Verify TAM report.
6. Submit maintenance transactions.
7. Conduct required reconciliations.

REFERENCES:
1. Local Policies/Procedures
2. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
5. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #2, par 6002. This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems (MIMMS/AIS), Asset Tracking Logistics and Supply System II+ (ATLASS II+).

2111-ADMN-2003: Maintain armory publication and directive program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given current, technical information, and automated systems with internet access, in a field or garrison environment.

STANDARD: To ensure required publications and directives are on hand to accomplish the mission.

PERFORMANCE STEPS:
1. Maintain publications requirements based on mission and T/E.
2. Maintain publications and directives on hand.
3. Determine deficiencies.
4. Take corrective actions.
5. Maintain armory publication and directives control procedures.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual

2. MCO P5215.17 USMC Technical Publications System
3. MCO P5600.31G Marine Corps Publications and Printing Regulations
4. SL-1-2 Index of Authorized Publication for Equipment Support
5. SL-1-3 Index of Authorized Publication for Equipment Support

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 6002.

GROUND ORD MAINT T&R MANUAL

CHAPTER 7

MOS 2112 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	7000	7-2
EVENT CODING.	7001	7-2
INDEX OF INDIVIDUAL EVENTS.	7002	7-3
2000-LEVEL EVENTS	7003	7-4

CHAPTER 7

MOS 2112 INDIVIDUAL EVENTS

7000. PURPOSE. This chapter contains individual training events for the Precision Weapons Repairer.

7001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2112). The second four digits represent the functional or duty area: Administrative Functions (ADMN), Equipment Repair and Fabrication (FABR), Machine Operations (MACH), and Weapons Production and/or Maintenance (WPNS). The last four digits represent the level, and identifier number of the event. This chapter contains only 2000 level events. Each individual event has an identifier number from 001 to 999.

7002. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	2000-LEVEL	
2112-ADMN-2001	Follow basic shop procedures	7-4
2112-ADMN-2002	Follow basic maintenance procedures	7-4
2112-FABR-2003	Extract broken bolt, tap, drill bit or stud	7-5
2112-FABR-2004	Install thread inserts	7-6
2112-FABR-2005	Prepare shop drawing	7-6
2112-FABR-2006	Weld band saw blade	7-7
2112 FABR-2007	Sharpen turning tool bits	7-7
2112 FABR-2008	Sharpen twist drill bits	7-8
2112 FABR-2009	Operate drill grinding machine	7-8
2112-MACH-2010	Operate arbor press	7-9
2112-MACH-2011	Operate band saw	7-10
2112-MACH-2012	Operate bead blaster	7-10
2112-MACH-2013	Operate belt sander	7-11
2112-MACH-2014	Operate bench grinder	7-12
2112-MACH-2015	Operate disk sander	7-12
2112-MACH-2016	Operate drill press	7-13
2112-MACH-2017	Operate rotary tool	7-13
2112-MACH-2018	Operate heat treatment oven	7-14
2112-MACH-2019	Operate hydraulic press	7-15
2112-MACH-2020	Operate lathe	7-15
2112-MACH-2021	Operate milling machine	7-16
2112-MACH-2022	Operate oxyacetylene welding equipment	7-17
2112-MACH-2023	Operate polishing machine	7-17
2112-MACH-2024	Operate hardness tester	7-18
2112-MACH-2025	Operate surface grinder	7-19
2112-MACH-2026	Operate plasma cutter	7-19
2112-MACH-2027	Operate chop saw	7-20
2112-MACH-2028	Operate horizontal band saw (cutoff saw)	7-20
2112-MACH-2029	Operate Digital Read Out (DRO)	7-21
2112-WPNS-2030	Build National Match M1911A1 .45 caliber pistol	7-22
2112-WPNS-2031	Build MEU (SOC) M1911A1 .45 caliber pistol	7-22
2112-WPNS-2032	Build National Match M-16 series 5.56MM rifle	7-23
2112-WPNS-2033	Build M-14 7.62 MM Designated Marksman's Rifle	7-24
2112-WPNS-2034	Build M-40A3 7.62MM sniper rifle	7-24
2112-WPNS-2035	Chemically blacken steel	7-25
2112-WPNS-2036	Parkerize steel	7-26
2112-WPNS-2037	Maintain National Match M1911A1 .45 caliber pistol	7-26
2112-WPNS-2038	Maintain MEU(SOC) M1911A1 .45 caliber pistol	7-27
2112-WPNS-2039	Maintain National Match M-16 series 5.56MM rifle	7-28
2112-WPNS-2040	Maintain M-14, 7.62MM Designated Marksman's Rifle	7-28
2112-WPNS-2041	Maintain M-40A3 7.62MM sniper rifle	7-29
2112-WPNS-2042	Maintain M82A3 Special Application Scoped Rifle	7-30
2112-WPNS-2043	Maintain Model 41 Smith and Wesson .22 caliber pistol	7-30
2112-WPNS-2044	Maintain Model 40X Remington .22 caliber rifle	7-31
2112-WPNS-2045	Test ammunition for use in precision weapons	7-32

7003. 2000-LEVEL INDIVIDUAL EVENTS

2112-ADMN-2001: Follow basic shop procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a work area, a precision weapons repairer's tool box, common tools, power tools, measuring tools and current authorized technical information.

STANDARD: Maintain assigned work area in the accomplishment of maintenance assignments per the references.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Organize tools and equipment within work area.
3. Follow instructions for care of tools.
4. Observe hazardous material regulations.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5 DOD Hazard Communication Program
3. MCO 5100.29 Marine Corps Safety Program w/CH 1
4. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
5. MCO P5090.2A Environmental Compliance and Protection Manual
6. TM 9-243 Common Tools Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must; (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; (2) have access to label information and material safety data sheets to understand the hazard(s); and (3) be able to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

2112-ADMN-2002: Follow basic maintenance procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required publications, individual modification requirements, calibrated test, measurement and diagnostic equipment, equipment repair records and forms, and current authorized technical information.

STANDARD: Validate equipment serviceability and completion of maintenance inspections and procedures per MCO P4790.2.

PERFORMANCE STEPS:
1. Use required publications and directives.
2. Adhere to modification instructions as required.
3. Adhere to calibration procedures as required.
4. Complete maintenance and/or administrative forms and records as required.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. MCO P5215.17 USMC Technical Publications System
3. NAVMC 2761 Catalog of Publications
4. SL-1-2 Index of Authorized Publication for Equipment Support
5. SL-1-3 Index of Authorized Publication for Equipment Support
6. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
8. UM 4400-124 FMF SASSY Using Unit Procedures
9. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

2112-FABR-2003: Extract broken bolt, tap, drill bit or stud

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a broken bold/tap/drill bit/stud, a precision weapons repairer's tool box, a drill, easy outs, stud extractor, oxyacetylene torch, safety equipment, and current authorized technical information.

STANDARD: Extract broken bold/tap/drill bit/stud per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Determine what must be extracted.
3. Determine appropriate extraction procedure.
4. Perform Preventive Maintenance Checks and Services (PMCS) of equipment.
5. Extract broken part.
6. Recondition threaded hole as required.
7. Complete maintenance and/or administrative forms and records as required.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-FABR-2004: Install thread inserts

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment with damaged threads, an insert kit, a precision weapons repairer's tool box, safety equipment, and current authorized technical information.

STANDARD: Install thread inserts per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Read directions on insert kit.
3. Perform PMCS of equipment.
4. Insert/Extract thread insert.
5. Complete maintenance and/or administrative forms and records as required.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-FABR-2005: Prepare shop drawing

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given specifications of items to be drawn, drafting equipment and current authorized technical information.

STANDARD: Prepare a drawing to specification per TM 5-704.

PERFORMANCE STEPS:
1. Gather necessary materials for drawing.
2. Prepare an accurate drawing complying with requested specifications.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
3. TM 5-704 Construction Print Reading in the Field

2112-FABR-2006: Weld band saw blade

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given band saw with welder, spool or band saw blade, safety equipment, and current authorized technical information.

STANDARD: Weld a band saw blade to specifications per TM 9-3405-205-14&P.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Cut blade to appropriate length.
3. Grind ends to match.
4. Perform PMCS on band saw welder.
5. Place blade on welder blade holders.
6. Weld and anneal blades.
7. Grind off excess weld as required.
8. Check on blade thickness gage.
9. Fit on band saw.
10. Perform cutting operations.
11. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. TM 9-3405-205-14&P U Saw Band Metal Cutting Mod

2112-FABR-2007: Sharpen turning tool bits

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tool bit, bench grinder, coolant, safety equipment and current authorized technical information.

STANDARD: Sharpen tool bit to specifications per TC 9-524.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Perform PMCS on bench grinder.
3. Grind turning tool bit to required specifications.
4. Quench tool bit in coolant as required.
5. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-FABR-2008: Sharpen twist drill bits

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a drill bit, bench grinder, coolant, drill gage, safety equipment, and current authorized technical information.

STANDARD: Sharpen drill bit to specification per TC 9-524.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Perform PMCS on bench grinder.
3. Sharpen drill bit to desired angle.
4. Check finished bit with gage.
5. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-FABR-2009: Operate drill grinding machine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a drill grinding machine, a drill bit, drill gage, safety equipment, and current authorized technical information.

STANDARD: Sharpen drill bit to specification per TC 9-524.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Perform PMCS on drill grinding machine.
3. Sharpen drill bit to desired angle.
4. Check finished bit with gage.
5. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2010: Operate arbor press

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an Arbor Press, measuring tools, a pistol slide, a barrel bushing, safety equipment, and current authorized technical information.

STANDARD: Fit a barrel bushing to a pistol slide per the MEU (SOC) Build Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS on arbor press.
4. Set up arbor press for operations.
5. Perform pressing operations.
6. Inspect fit.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. FM 9-243 Use and Care of Hand Tools and Measuring Tools

2. TM 00526A-24&P/2 Pistol Caliber .45 MEU (SOC)
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2011: Operate band saw

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Band Saw, lay out die, a piece of raw stock, measuring tools, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Cutting a piece of stock not to exceed more than 1/8" material over shop drawing specifications.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Layout work piece.
3. Perform PMCS on band saw.
4. Set up band saw for operations.
5. Cut stock to dimensions given on shop drawing.
6. Complete maintenance/administrative forms and records.

REFERENCES:
1. FM 9-243 Use and Care of Hand Tools and Measuring Tools
2. Machinist Handbook
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
6. TM 5-704 Construction Print Reading in the Field
7. TM 9-243 Common Tools Manual
8. TM 9-3405-205-14&P U Saw Band Metal Cutting Mod

2112-MACH-2012: Operate bead blaster

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Bead Blaster, a work piece, safety equipment, and current authorized technical information.

STANDARD: Ensuring the work piece has a clean uniform finish per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS on bead blaster.
4. Set up bead blaster for operations.
5. Bead blast work piece.
6. Inspect work piece.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2013: Operate belt sander

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a belt sander, coolant, lay out die, work piece, measuring tools, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Sand a work piece, not to exceed more than 1/8" of material over shop drawing specifications, per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Layout work piece.
3. Perform PMCS on belt sander.
4. Set up belt sander for operations.
5. Sand work piece.
6. Inspect work piece for proper tolerances.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2014: Operate bench grinder

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a bench grinder, coolant, lay out die, a work piece, measuring tools, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Grind a work piece not to exceed more than 1/8" of material over shop drawing specifications.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work piece.
3. Perform PMCS on bench grinder.
4. Adjust tool rest.
5. Dress grinding wheel.
6. Perform grinding operations.
7. Inspect work piece for proper tolerances.
8. Complete maintenance/administrative forms and records.

REFERENCES:
1. FM 9-243 Use and Care of Hand Tools and Measuring Tools
2. Machinist Handbook
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2015: Operate disk sander

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a disk sander, coolant, lay out die, a work piece, measuring tools, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Sand a work piece not to exceed more than 1/8" of material over shop drawing specifications, per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.

2. Lay out work piece.
3. Perform PMCS on disk sander.
4. Adjust tool rest.
5. Perform sanding operations.
6. Inspect work piece for proper tolerances.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2016: Operate drill press

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a drill press, coolant, appropriate bits, lay out die, a work piece, measuring tools, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Drill hole/holes into the work piece according to shop drawing specifications.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS on drill press.
4. Set up drill press.
5. Perform drilling operations.
6. Inspect work piece for proper tolerances.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. FM 9-243 Use and Care of Hand Tools and Measuring Tools
2. Machinist Handbook
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2017: Operate rotary tool

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a rotary tool with appropriate cutting bits, lay out die, a work piece, measuring tools, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Modify a work piece according to shop drawing specifications per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS on rotary tool.
4. Perform rotary tool operations.
5. Inspect work piece for proper tolerances.
6. Complete maintenance/administrative forms and records.

REFERENCES:
1. FM 9-243 Use and Care of Hand Tools and Measuring Tools
2. Operator's Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2018: Operate heat treatment oven

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a heat treatment oven, quenching and annealing material, a work piece and specifications from a hardness tester, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Soften or harden work piece according to shop drawing specifications.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS on heat treatment oven.
4. Set oven controls for operations.
5. Perform heat treating procedures, quenching, and tempering as required.
6. Verify hardness of treated metal by performing hardness test.
7. Complete maintenance /administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual

3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2019: Operate hydraulic press

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a hydraulic press, a work piece that requires torque or squeezing, squeeze fixture, torque wrench adapters, safety equipment, and current authorized technical information.

STANDARD: Operate hydraulic press according to required specifications per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS on hydraulic press.
4. Set up hydraulic press.
5. Perform pressing or squeezing operations.
6. Inspect work piece for proper tolerances.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. FM 9-243 Use and Care of Hand Tools and Measuring Tools
2. Machinist Handbook
3. Operator's Manual
4. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
6. M14 Designated Marksman's Rifle Build Procedures
7. National Match M1911A1 Pistol Build Procedures
8. Sniper Rifle Build Procedures

2112-MACH-2020: Operate lathe

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a lathe with accessories, lay out die, a work piece, measuring tools, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Modify a work piece according to shop drawing specifications.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Determine type of operation that must be performed.
3. Determine type of holding device/devices required to perform operation.
4. Lay out work.
5. Perform PMCS on lathe.
6. Set up lathe for operations.
7. Perform required lathe operations.
8. Inspect work piece for proper tolerances.
9. Complete maintenance/administrative forms and records.

REFERENCES:
1. FM 9-243 Use and Care of Hand Tools and Measuring Tools
2. Machinist Handbook
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2021: Operate milling machine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a milling machine with accessories, lay out die, a work piece, measuring tools, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Modify a work piece according to shop drawing specifications.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Determine type of operation that must be performed.
3. Determine type of holding device/devices required to perform operation.
4. Lay out work.
5. Perform PMCS on milling machine.
6. Set up milling machine for operations.
7. Perform required milling operations.
8. Inspect work piece for proper tolerances.
9. Complete maintenance/administrative forms and records.

REFERENCES:
1. FM 9-243 Use and Care of Hand Tools and Measuring Tools

2. Machinist Handbook
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2022: Operate oxyacetylene welding equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an oxyacetylene welding system, a work piece, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Modify work piece according to shop drawing specifications.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS on oxyacetylene welding equipment.
4. Set up equipment for operations.
5. Perform required oxyacetylene operation.
6. Inspect work piece.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-237 Welding Theory
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2023: Operate polishing machine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a polishing machine with various polishing compounds, a stitched felt wheel, a work piece, safety equipment, and current authorized technical information.

STANDARD: Polish work piece according to shop drawing specifications per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS on polishing machine for operations.
4. Set up polishing machine for operations.
5. Select proper compound.
6. Polish work piece to desired finish.
7. Inspect work piece.
8. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
5. TM 9-243 Common Tools Manual

2112-MACH-2024: Operate hardness tester

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a hardness tester, a work piece, safety equipment and current authorized technical information.

STANDARD: Test hardness of work piece per TC 9-524.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS hardness tester.
4. Set up machine for operations.
5. Conduct hardness test.
6. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2025: Operate surface grinder

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a surface grinder, lay out die, a work piece, measuring tools, a shop drawing, safety equipment, and current authorized technical information.

STANDARD: Grind the work piece according to shop drawing specifications per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Determine speed and feed to be used.
3. Lay out work.
4. Perform PMCS on surface grinder.
5. Set up machine for operations.
6. Perform grinding operation.
7. Inspect work piece for proper tolerances.
8. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2026: Operate plasma cutter

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a plasma cutter, lay out die, a work piece, measuring tools, a shop drawing, safety equipment and current authorized technical information.

STANDARD: Cut work piece not to exceed more than 1/8” of material over shop drawing specifications, per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work piece.
3. Perform PMCS on plasma cutter.

4. Set up machine for operations.
5. Perform cutting operations.
6. Inspect work piece for proper tolerances.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2027: Operate chop saw

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a chop saw, an unserviceable work piece, and demilitarization specifications per the operator's manual.

STANDARD: Chop up work piece according to demilitarization specifications per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work piece.
3. Perform PMCS on chop saw.
4. Set up machine for operations.
5. Perform cutting operations.
6. Inspect work piece for proper tolerances.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. DOD 4160.21-M-1 Defense Demilitarization Manual
2. Machinist Handbook
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2028: Operate horizontal band saw (cutoff saw)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a horizontal band saw, lay out die, a piece of raw stock, measuring tools, a shop drawing, safety equipment and current authorized technical information.

STANDARD: Cut a piece of raw stock not to exceed more than 1/8" of material over shop drawing specifications.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Perform PMCS on horizontal band saw.
4. Set up machine for operations.
5. Perform cutting operations.
6. Inspect work piece for proper tolerances.
7. Complete maintenance/administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-MACH-2029: Operate Digital Read Out (DRO)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a piece of machining equipment with a digital read out, a work piece, safety equipment and current authorized technical information.

STANDARD: Demonstrate how to read and zero the Digital Read Out per the operator's manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Lay out work.
3. Zero display.
4. Use an edge finder/cutting tool to set absolute zero.
5. Set absolute zero using tool offset.
6. Change the position of absolute zero.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual

2112-WPNS-2030: Build National Match M1911A1 .45 caliber pistol

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a standard M1911A1 .45 caliber pistol, a precision weapons repairer's tool box, machining equipment, match conditioned pistol parts, test facilities, ammunition, safety equipment, and current authorized technical information.

STANDARD: Build a national match M1911A1 .45 caliber pistol that will consistently fire three (3) ten (10) shot groups with an average group size of three (3) inches or less at fifty (50) yards per the National Match Pistol Build Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Disassemble weapon.
4. Inspect all parts for serviceability.
5. Perform match pistol modifications.
6. Refinish weapon.
7. Reassemble weapon.
8. Perform function check.
9. Proof and function fire weapon.
10. Machine rest weapon and perform accuracy test.
11. Complete maintenance and/or administrative forms or records.

REFERENCES:
1. TI 00526A-25/2B Match Condition Procedures Pistol .45 CAL
2. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. TM 9-1005-211-12 M1911A1 Operator's Manual
5. TM 9-1005-211-35 M1911A1 Maintenance Manual
6. National Match M1911A1 Pistol Build Procedures

2112-WPNS-2031: Build MEU (SOC) M1911A1 .45 caliber pistol

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a M1911A1 .45 Caliber receiver, a precision weapons repairer's tool box, machining equipment, MEU (SOC) pistol parts, test

facilities, ammunition, safety equipment, and current authorized technical information.

STANDARD: Build a MEU (SOC) M1911A1 .45 caliber pistol that is fully operational per the MEU (SOC) Pistol Build Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Inspect all parts for serviceability.
3. Perform MEU (SOC) pistol modifications.
4. Refinish weapon.
5. Assemble weapon.
6. Perform function check.
7. Proof and function fire weapon.
8. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 00526A-24&P/2 Pistol Caliber .45 MEU (SOC)
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. MEU (SOC) Pistol Build Procedures

2112-WPNS-2032: Build National Match M-16 series 5.56MM rifle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a standard M-16 series 5.56mm rifle, a precision Weapons Repairer Tool box, machining equipment, match conditioned rifle parts, test facilities, ammunition, safety equipment, and current authorized technical information.

STANDARD: Build a national match M16 series 5.56MM rifle that will consistently fire three (3), five (5) shot groups, with an average group size of three (3) inches or less at three hundred (300) yards per the National Match Rifle Build Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Disassemble weapon.
4. Inspect all parts for serviceability.
5. Perform match rifle modifications.
6. Refinish weapon.
7. Reassemble weapon.
8. Perform functional check.
9. Proof and function fire weapon.

10. Machine rest weapon and perform accuracy test.
11. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 05538C-23&P/2 RIFLE 5.56MM M16A2 W/E
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
3. National Match Rifle Build Procedures

2112-WPNS-2033: Build M-14 7.62 MM Designated Marksman's Rifle (DMR)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a standard M-14 7.62 MM rifle, a precision weapons repairer tool box, machining equipment, designated marksman's rifle parts, test facilities, ammunition, safety equipment, and current authorized technical information.

STANDARD: Build a M14 7.62 MM Designated Marksman's rifle that will consistently fire three (3) five (5) shot groups, with an average group size of three (3") inches or less at three hundred (300) yards, per the M14 DMR Build Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Disassemble weapon.
4. Inspect all parts for serviceability.
5. Perform DMR modifications.
6. Refinish weapon.
7. Reassemble weapon.
8. Perform function check.
9. Proof and function fire weapon.
10. Machine rest weapon and perform accuracy test.
11. Complete required maintenance and/or administrative forms or records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 02648C-24 & P/2 Technical Manual Organization and Intermediate Maintenance Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. M14 Designated Marksman's Rifle Build Procedures

2112-WPNS-2034: Build M-40A3 7.62MM sniper rifle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Remington model 700 Receiver, a precision weapons repairer's tool box, machining equipment, M40A3 sniper rifle parts, test facilities, ammunition, safety equipment, and current authorized technical information.

STANDARD: Build a M40A3 7.62MM sniper rifle that will consistently fire three (3) five (5) shot groups, with an average group size of three (3) inches or less at three hundred (300) yards, per the Sniper Rifle Build Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Inspect all parts for serviceability.
3. Perform M40A3 sniper rifle modifications.
4. Refinish weapon.
5. Assemble weapon.
6. Perform function check.
7. Proof and function fire weapon.
8. Machine rest weapon and perform accuracy test.
9. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 05539C-23&P M40A1 SNIPER RIFLE 7.26
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. Sniper Rifle Build Procedures

2112-WPNS-2035: Chemically blacken steel

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given metal refinishing equipment, a chemical blackening solution, a cleaning solution, a chemical blackening stabilizing solution, rinse water, a work piece, safety equipment, and current authorized technical information.

STANDARD: Chemically blacken work piece to a uniform shade per the Refinishing Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Set up refinishing equipment.
3. Prepare work piece for finishing operations.

4. Perform refinishing operation.
5. Clean and inspect work piece.
6. Complete maintenance and/or administrative forms or records.

REFERENCES:
1. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
2. Refinishing Procedures

2112-WPNS-2036: Parkerize steel

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given metal refinishing equipment, a parkerizing solution, a cleaning solution, rinse water, a work piece, safety equipment, and current authorized technical information.

STANDARD: Parkerize work piece to a uniform shade per the Refinishing Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Set up refinishing equipment.
3. Prepare work piece for parkerizing operations.
4. Perform parkerizing operation.
5. Clean and Inspect work piece.
6. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
2. Refinishing Procedures

2112-WPNS-2037: Maintain National Match M1911A1 .45 caliber pistol

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a National Match M1911A1 .45 caliber pistol, a precision weapons repairer's tool box, match conditioned pistol parts, safety equipment, and current authorized technical information.

STANDARD: Maintain the national match M1911A1 .45 caliber pistol so that the weapon is fully operational, per the National Match Pistol Build Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Perform function check.
4. Perform Limited Technical Inspection.
5. Disassemble weapon.
6. Repair/replace all unserviceable parts/components.
7. Reassemble weapon.
8. Perform function check.
9. Test fire weapon as required.
10. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI 00526A-25/2B Match Condition Procedures Pistol .45 CAL
2. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
3. TM 00526A-24&P/2 Pistol Caliber .45 MEU (SOC)
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
5. TM 9-1005-211-12 M1911A1 Operator's Manual
6. TM 9-1005-211-35 M1911A1 Maintenance Manual
7. National Match M1911A1 Pistol Build Procedures

2112-WPNS-2038: Maintain MEU (SOC) M1911A1 .45 caliber pistol

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a MEU (SOC) M1911A1 .45 caliber pistol, a precision weapons repairer's tool box, MEU (SOC) pistol parts, safety equipment, and current authorized technical information.

STANDARD: So that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Perform function check.
4. Perform Limited Technical Inspection.
5. Disassemble weapon.
6. Repair and/or replace all unserviceable parts and/or components.
7. Reassemble weapon.
8. Perform function check.
9. Test fire weapon as required.
10. Complete maintenance and/or administrative forms or records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 00526A-24&P/2 Pistol Caliber .45 MEU (SOC)
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. MEU (SOC) Pistol Build Procedures

2112-WPNS-2039: Maintain National Match M-16 series 5.56MM rifle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a national match M-16 series 5.56MM rifle, a precision weapons repairer's tool box, match conditioned rifle parts, safety equipment, and current authorized technical information.

STANDARD: So that the weapon is fully operational, per the National Match Rifle Build Procedures.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Perform function check.
4. Perform Limited Technical Inspection.
5. Disassemble weapon.
6. Repair/replace all unserviceable parts/components.
7. Reassemble weapon.
8. Perform function check.
9. Test fire weapon as required.
10. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 05538C-23&P/2 RIFLE 5.56MM M16A2 W/E
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. National Match Rifle Build Procedures

2112-WPNS-2040: Maintain M-14, 7.62MM Designated Marksman's Rifle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a M-14 7.62 MM Designated Marksman's Rifle, a precision weapons repairer's tool box, Designated Marksman's Rifle parts, safety equipment, and the current authorized technical information.

STANDARD: So that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Perform function check.
4. Perform Limited Technical Inspection.
5. Disassemble weapon.
6. Repair/replace all unserviceable parts/components.
7. Reassemble weapon.
8. Perform function check.
9. Test fire weapon as required.
10. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 02648C-24 & P/2 Technical Manual Organization and Intermediate Maintenance Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. M14 Designated Marksman's Rifle Build Procedures

2112-WPNS-2041: Maintain M-40A3 7.62MM sniper rifle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M-40A3 7.62MM Sniper Rifle, a precision weapons repairer's tool box, M40A3 sniper rifle parts, safety equipment, and current authorized technical information.

STANDARD: So that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Perform function check.
4. Perform Limited Technical Inspection.
5. Disassemble weapon.
6. Repair/replace all unserviceable parts/components.
7. Reassemble weapon.
8. Perform function check.

9. Test fire weapon as required.
10. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
3. Sniper Rifle Build Procedures

2112-WPNS-2042: Maintain M82A3 special application scoped rifle (SASR)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a M82A3 Special Application Scoped Rifle, a precision weapons repairer's tool box, M82A3 SASR parts, safety equipment, and current authorized technical information.

STANDARD: So that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Perform functional check.
4. Perform Limited Technical Inspection.
5. Disassemble weapon.
6. Repair/replace all unserviceable parts/components.
7. Reassemble weapon.
8. Perform function check.
9. Test fire weapon as required.
10. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 09629A-23&P/2A SASR, 50 CALIBER M82A1A
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-WPNS-2043: Maintain Model 41 Smith and Wesson .22 caliber pistol

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Model 41 pistol, a precision weapons repairer's tool box, Model 41 pistol parts, safety equipment, and current authorized technical information.

STANDARD: So that the weapon is fully operational, per the manufacturer's maintenance manual.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Perform function check.
4. Perform Limited Technical Inspection.
5. Disassemble weapon.
6. Repair/replace all unserviceable parts/components.
7. Reassemble weapon.
8. Perform function check.
9. Test fire weapon as required.
10. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-WPNS-2044: Maintain Model 40X Remington .22 caliber rifle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Model 40X Remington .22 caliber rifle, a precision weapons repairer's Tool Kit, references, shop equipment, Model 41 replacement parts, and general shop supplies.

STANDARD: So that the weapon is fully operational, in accordance with references.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Clear weapon.
3. Perform function check.
4. Perform Limited check.
5. Perform Limited Technical Inspection.
6. Disassemble weapon.
7. Repair/replace all unserviceable parts/components.
8. Reassemble weapon.
9. Perform function check.
10. Test fire weapon as required.
11. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI 8005-24/20 Pre-Fire Inspection Small Arms Weapon Ordnance Material
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2112-WPNS-2045: Test ammunition for use in precision weapons

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

BILLETS: Armorer

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a weapon, ammunition for test, written request for test, safety equipment, a precision weapons repairer's tool box, test facility, and current authorized technical information.

STANDARD: To ensure that a written recommendation for ammunition is submitted per the references and other specifications.

PERFORMANCE STEPS:
1. Observe safety procedures.
2. Order test lots of ammunition.
3. Test each lot.
4. Select the best test lot.
5. Match test lot to each weapon when required.
6. Complete maintenance/administrative forms and records.

REFERENCES:
1. MCO 3591.14 Use of Service Weapon in Competition
2. MCO 8373.2 Auth Alw Maint & Acct Rifle/Pistol

GROUND ORD MAINT T&R MANUAL

CHAPTER 8

MOS 2120 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	8000	8-2
EVENT CODING.	8001	8-2
ADMINISTRATIVE NOTES	8002	8-2
INDEX OF INDIVIDUAL EVENTS	8003	8-3
2000-LEVEL EVENTS	8004	8-4

CHAPTER 8

MOS 2120 INDIVIDUAL EVENTS

8000. PURPOSE. This chapter contains individual training events for the Weapons Repair Officer.

8001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2120). The second four digits represent the functional or duty area: Administrative Functions (ADMN), and Technical Functions (TECH). The last four digits represent the level, and identifier number of the event. This chapter contains 2000-level events only. Each individual event has an identifier number from 001 to 999.

8002. ADMINISTRATIVE NOTES

1. Various staff assignments will include but are not limited to Headquarters, Marine Corps (HQMC), post, bases, stations, divisions, regiments, battalions, and companies. Due to the scope of duties and responsibilities at each level the grade/rank structures will vary.

    a. Posts, bases, stations, regiments, and battalions – CWO3.

    b. Posts, bases, stations, and Headquarters Marine Corps – CWO5.

2. Automated systems include CD-ROM, web based information and all applicable electronic media.

8003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	2000-LEVEL	
2120-ADMN-2001	Manage unit ground ordnance maintenance operations	8-4
2120-ADMN-2002	Employ ground ordnance equipment maintenance management programs	8-5
2120-ADMN-2003	Manage ground ordnance equipment maintenance resources	8-6
2120-ADMN-2004	Manage technical information and directives for ground ordnance equipment	8-7
2120-ADMN-2005	Monitor maintenance shop level MOS training program	8-8
2120-ADMN-2006	Manage support equipment programs for ground ordnance equipment	8-8
2120-ADMN-2007	Manage supply support procedures for ground ordnance equipment	8-9
2120-ADMN-2008	Manage ground ordnance maintenance facilities	8-10
2120-ADMN-2009	Manage maintenance production schedule for ground ordnance equipment	8-10
2120-ADMN-2010	Manage maintenance related programs for ground ordnance equipment	8-11
2120-ADMN-2011	Manage preventive maintenance checks and services (PMCS) programs for ground ordnance	8-12
2120-ADMN-2012	Manage corrective maintenance program for ground ordnance equipment	8-13
2120-ADMN-2013	Manage modification programs for ground ordnance equipment	8-13
2120-ADMN-2014	Monitor environmental compliance for ground ordnance equip0ment	8-14
2120-ADMN-2015	Manage shop safety program	8-15
2120-ADMN-2016	Manage embarkation program for ground ordnance equipment	8-15
2120-ADMN-2017	Manage maintenance shop information requirements	8-16
2120-ADMN-2018	Prepare routine correspondence, messages, staff papers, and policy letters for ground ordnance	8-17
2120-ADMN-2019	Manage physical security programs for ground ordnance equipment	8-18
2120-ADMN-2020	Assist in the fielding of ground ordnance equipment	8-18
2120-TECH-2021	Serve as the technical advisor for ground ordnance weapons	8-19
2120-TECH-2022	Provide technical management for the repair of ground ordnance weapons	8-21
2120-TECH-2023	Manage unit ammunition control program	8-23
2120-TECH-2024	Perform duties as load test certification officer	8-24
2120-TECH-2025	Direct recovery operations for artillery	8-24
2120-TECH-2026	Manage the joint oil analysis program (JOAP) for ground ordnance vehicles	8-25

8004. 2000-LEVEL EVENTS

2120-ADMN-2001: Manage unit ground ordnance maintenance operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), equipment records, and automated systems with internet access.

STANDARD: To ensure ground ordnance equipment remains combat ready.

PERFORMANCE STEPS:
1. Determine mission requirements
2. Focus ground ordnance equipment maintenance effort to maximize combat effectiveness

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. Applicable Equipment Technical Manuals
3. DOD DIR 4160.21 Defense Disposal Manual
4. Local Policies/Procedures
5. MCBUL 1200 Military Occupational Specialties Manual
6. MCBUL 3000 MARES Logistics Reportable Equipment
7. MCDP 4 Logistics
8. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
9. MCO 1553.3A Marine Corps Unit Training Management
10. MCO 1650.17F USMC Military Incentive Award Program
11. MCO 3000.11C Marine Ground Readiness Reporting
12. MCO 4030.16 Marine Corps Packing and Packing Maintenance of Small Arms
13. MCO 4030.19 Special Provisions
14. MCO 4030.25 Storage and Supply Activities
15. MCO 4030.33 Packaging of Material
16. MCO 4030.36 Marine Corps Packing Manual
17. MCO 4105.2 Marine Corps Warranty Program
18. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
19. MCO 4340-1A Reporting Lost or Stolen Government Property
20. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
21. MCO 4400.150 Consumer Level Supply Policy Manual
22. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
23. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
24. MCO 4855.10 Product Quality Deficiency Report (PQDR)
25. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
26. MCO 5104.3 Marine Corps Radiation Safety Program
27. MCO 5215.1 The Marine Corps Directives System
28. MCO 5500.13 Physical Security

29. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
30. MCO 5530.14 Marine Corps Physical Security Program Manual
31. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
32. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
33. MCO P4400.105 Radioactive Commodities DOD System
34. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
35. MCO P4400.82 MIMMS Controlled Item Management Manual
36. MCO P4600.14 Transportation Fac Guide Vol 4
37. MCO P4600.19 Commercial Service Plan
38. MCO P4610.19 Commercial Service Plan
39. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
40. MCO P4790.2 MIMMS Field Procedures Manual
41. MCO P4790.3 MIMMS Depot Policy Manual
42. MCO P5090.2A Environmental Compliance and Protection Manual
43. MCO P5600.31G Marine Corps Publications and Printing Regulations
44. MCRP 3-0A Unit Training Management Guide
45. MCRP 3-0B How to Conduct Training
46. MCWP 3-1 Ground Combat Operations
47. MCWP 4-1 Logistics Operations
48. NAVFAC P-307 Management of Weight Handling Equipment
49. NAVSEATM-50420-AA-RAD-010
50. OPNAVINST 5530.13C Physical Security and Loss Prevention
51. OPNAVINST 5530.14 Physical Security and Loss Prevention
52. SECNAVINST 5216.5 Naval Correspondence Manual
53. SL-1-2 Index of Authorized Publication for Equipment Support
54. SL-1-3 Index of Authorized Publication for Equipment Support
55. TI-4733-15/1 Calibration Requirements
56. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
57. TI-4733-15/1D TMDE Calibration & Maintenance Program
58. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
59. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
60. UM 4400-124 FMF SASSY Using Unit Procedures
61. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
62. UM MCPDS Marine Corps Publications Distribution System Users Manual
63. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par. 8020.

2120-ADMN-2002: Employ ground ordnance equipment maintenance management programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure all applicable maintenance resources are properly acquired and utilized to meet mission requirements.

PERFORMANCE STEPS:
1. Validate mission requirements.
2. Analyze capabilities.
3. Validate resource requirements.
4. Analyze external requirements.
5. Anticipate future maintenance requirements.
6. Develop procedures utilizing functional areas of maintenance management.
7. Implement maintenance management programs.
8. Manage maintenance management programs.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCBUL 1200 Military Occupational Specialties Manual
4. MCO 3000.11C Marine Ground Readiness Reporting
5. MCO P4790.2C MIMMS Field Procedures Manual
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2003: Manage ground ordnance equipment maintenance resources

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, Table of Organization & Equipment (T/O & E), automated systems with internet access, equipment records, personnel, maintenance facility, and a budget.

STANDARD: To ensure maintenance resources are focused on ordnance equipment readiness and are maintained in accordance with the Commanders intent.

PERFORMANCE STEPS:
1. Determine required resources.
2. Prioritize available resources.
3. Plan employment of available resources.
4. Organize available resources.
5. Coordinate available resources.

REFERENCES:
1. Local Policies/Procedures
2. MCDP 4 Logistics

3. MCO 3000.11C Marine Ground Readiness Reporting
4. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
5. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
6. MCO 5215.1 The Marine Corps Directives System
7. MCO P4400.82 MIMMS Controlled Item Management Manual
8. MCO P4790.2 MIMMS Field Procedures Manual
9. MCO P5600.31G Marine Corps Publications and Printing Regulations
10. MCWP 4-1 Logistics Operations
11. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
12. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2004: Manage technical information and directives for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and mission requirements.

STANDARD: To ensure the quantity, serviceability, and accountability of all information sources is maintained.

PERFORMANCE STEPS:
1. Validate requirements.
2. Register requirements.
3. Manage the publications control program.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. MCO P5600.31G Marine Corps Publications and Printing Regulations
3. SL-1-2 Index of Authorized Publication for Equipment Support
4. SL-1-3 Index of Authorized Publication for Equipment Support
5. UM MCPDS Marine Corps Publications Distribution System Users Manual
6. UM-PLMS Publications Library Management System
7. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2005: Monitor maintenance shop level MOS training program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, personnel records, and mission requirements.

STANDARD: To ensure personnel are adequately trained to meet mission requirements.

PERFORMANCE STEPS:
1. Validate requirements.
2. Coordinate MOS training.
3. Direct MOS training.
4. Analyze MOS training effectiveness.

REFERENCES:
1. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
2. MCO 1553.3A Marine Corps Unit Training Management
3. MCO P4790.2 MIMMS Field Procedures Manual
4. MCRP 3-0A Unit Training Management Guide
5. MCRP 3-0B How to Conduct Training
6. MCWP 4-1 Logistics Operations
7. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2006: Manage support equipment programs for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure support equipment and maintenance programs are properly implemented.

PERFORMANCE STEPS:
1. Validate requirements.
2. Ensure control procedures are established.
3. Ensure Preventive Maintenance Checks and Services (PMCS) is conducted.

4. Ensure corrective maintenance is conducted.
5. Analyze effectiveness of support program.

REFERENCES:
1. Local Policies/Procedures
2. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
3. MCO P4790.2 MIMMS Field Procedures Manual
4. MCO P4790.2C MIMMS Field Procedures Manual
5. TI-4733-15/1 Calibration Requirements
6. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
7. TM 4700-15/1 Equipment Record Procedures
8. Unit TO/E Table of Organization/Equipment

2120-ADMN-2007: Manage supply support procedures for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, unit budget, and mission requirements.

STANDARD: To ensure all supply procedures are accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate supply support requirements.
2. Coordinate requisition procedures.
3. Direct the accountability of all repair parts.
4. Direct validation procedures.
5. Direct reconciliation procedures.
6. Coordinate with internal supply support agencies.
7. Coordinate with external supply support agencies.
8. Validate budget requirements.

REFERENCES:
1. Local Policies/Procedures
2. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
3. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
4. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
5. MCO P4400.105 Radioactive Commodities DOD System
6. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
7. MCO P4790.2 MIMMS Field Procedures Manual
8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
9. UM 4400-124 FMF SASSY Using Unit Procedures
10. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2008: Manage ground ordnance maintenance facilities

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, maintenance facilities, and mission requirements.

STANDARD: To ensure maintenance facilities are established per the mission requirements and are maintained efficiently and effectively.

PERFORMANCE STEPS:
1. Validate requirements.
2. Validate maintenance flow plan.
3. Validate facilities to support mission.
4. Validate operational risk management procedures.
5. Prioritize use of facilities.
6. Ensure facilities are maintained.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
4. MCO P4790.2 MIMMS Field Procedures Manual
5. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2009: Manage maintenance production schedule for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given Table of Organization & Equipment (T/O&E), automated systems with internet access, automated reports, equipment records, and maintenance resources.

STANDARD: To ensure maintenance production flow is accomplished per the mission requirements, and resources.

PERFORMANCE STEPS:
1. Validate production capability.
2. Prioritize maintenance effort.
3. Validate available resources.
4. Analyze quality control effectiveness.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCBUL 3000 MARES Logistics Reportable Equipment
4. MCO 3000.11C Marine Ground Readiness Reporting
5. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
6. MCO P4790.2 MIMMS Field Procedures Manual
7. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2010: Manage maintenance related programs for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure maintenance related programs are employed per the mission requirements.

PERFORMANCE STEPS:
1. Validate mission requirements.
2. Manage Product Quality Deficiency Report (PQDR) program.
3. Manage Corrosion Prevention and Control (CPAC) program.
4. Manage a Quality Control (QC) program.
5. Manage unit level execution of Depot Level Maintenance programs.
6. Manage execution of Contract Logistic Support (CLS).
7. Manage execution of warranty programs.
8. Manage demilitarization procedures.
9. Manage Military Awards/Incentives program.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. DOD DIR 4160.21 Defense Disposal Manual
3. MCBUL 3000 MARES Logistics Reportable Equipment
4. MCO 1650.17F USMC Military Incentive Award Program
5. MCO 3000.11C Marine Ground Readiness Reporting
6. MCO 4105.2 Marine Corps Warranty Program
7. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
8. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
9. MCO 4855.10 Product Quality Deficiency Report (PQDR)
10. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
11. MCO P4790.2 MIMMS Field Procedures Manual
12. MCO P4790.3 MIMMS Depot Policy Manual
13. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
14. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2011: Manage preventive maintenance checks and services (PMCS) programs for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure preventive maintenance checks and services are accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate PMCS requirements.
2. Validate cyclic maintenance requirements.
3. Validate special maintenance requirements.
4. Validate deferred maintenance requirements.
5. Validate PMCS schedule.
6. Manage documentation of PMCS program.
7. Manage Quality Control (QC) procedures for PMCS program.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. Local Policies/Procedures
3. MCBUL 3000 MARES Logistics Reportable Equipment
4. MCO 3000.11C Marine Ground Readiness Reporting
5. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)

6. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
7. MCO P4790.2 MIMMS Field Procedures Manual
8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
9. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2012: Manage corrective maintenance program for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: Ensure corrective maintenance is accomplished per the mission requirements and references.

PERFORMANCE STEPS:
1. Validate corrective maintenance requirements.
2. Monitor applicable maintenance procedures.
3. Monitor applicable reporting procedures
4. Analyze quality control effectiveness.
5. Coordinate with external maintenance activities.

REFERENCES:
1. MCBUL 3000 MARES Logistics Reportable Equipment
2. MCO 3000.11C Marine Ground Readiness Reporting
3. MCO 4400.150 Consumer Level Supply Policy Manual
4. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
5. MCO 4400.82 MIMMS Controlled Item Management Manual
6. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
7. MCO P4790.2 MIMMS Field Procedures Manual
8. TM 4700-15/1 Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2013: Manage modification programs for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: Ensure equipment modifications are accomplished per the mission requirements and references.

PERFORMANCE STEPS:
1. Validate equipment-requiring modification.
2. Monitor modification program.
3. Verify completion of administrative requirements.
4. Analyze modification program effectiveness.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Equipment Record Procedures

2120-ADMN-2014: Monitor environmental compliance for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: To ensure that environmental compliance procedures are observed per the mission requirements and references.

PERFORMANCE STEPS:
1. Validate environmental compliance requirements.
2. Coordinate with unit environmental compliance representative.
3. Direct corrective actions.
4. Analyze effectiveness of programs.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.105 Radioactive Commodities DOD System
6. MCO P4790.2 MIMMS Field Procedures Manual
7. MCO P5090.2A Environmental Compliance and Protection Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area of environment compliance encompasses but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC) Licenses, and Material Safety Data Sheets (MSDS). See Administrative Notes, par 8002.

2120-ADMN-2015: Manage shop safety program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, and a maintenance facility.

STANDARD: Ensure shop safety practices are observed per the mission requirements and references.

PERFORMANCE STEPS:
1. Validate safety program requirements.
2. Supervise compliance with shop safety procedures.
3. Direct corrective actions.
4. Analyze effectiveness of program.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.105 Radioactive Commodities DOD System
6. MCO P4790.2 MIMMS Field Procedures Manual
7. MCO P5090.2A Environmental Compliance and Protection Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area of safety encompasses all aspects of ground safety, which includes but is not limited to the following areas of concern: radiation safety, laser safety, Occupational Safety & Health Administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery rooms, Personal Protective Equipment (PPE), heat conditions, fire protect, medical surveillance programs, and industrial; hygiene. See Administrative Notes, par 8002.

2120-ADMN-2016: Manage embarkation program for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: Ensure ordnance equipment is embarked per the mission requirements and references.

PERFORMANCE STEPS:
1. Validate embarkation requirements.
2. Ensure that requirements are documented.
3. Coordinate with embarkation personnel.
4. Manage the preparation of equipment for embark.

REFERENCES:
1. MCO 4030.16 Marine Corps Packing and Packing Maintenance of Small Arms
2. MCO 4030.19 Special Provisions
3. MCO 4030.25 Storage and Supply Activities
4. MCO 4030.33 Packaging of Material
5. MCO 4030.36 Marine Corps Packing Manual
6. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
7. MCO 4400.150 Consumer Level Supply Policy Manual
8. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
9. MCO 4600.25 Transportation and Traffic Management
10. MCO 4600.30 Use of Intermodal Containers, Special Purpose Vans, and Tactical Vehicles
11. MCO 4610.15 Shipment of Military Equipment, Explosives and other Dangerous Articles
12. MCO P4600.14 Transportation Fac Guide Vol 4
13. MCO P4600.19 Commercial Service Plan
14. MCO P4610.19 Commercial Service Plan

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 8002.

2120-ADMN-2017: Manage maintenance shop information requirements

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: Ensure ordnance equipment information is completed per the mission requirements and references.

PERFORMANCE STEPS:
1. Validate maintenance information requirements.
2. Validate required output reports.
3. Manage completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analysis of reports.
6. Direct corrective action.
7. Review message traffic for information concerning ground ordnance equipment.

REFERENCES:
1. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
2. MCO P4400.82 MIMMS Controlled Item Management Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/Automated Information Systems, MIMMS (AIS), Asset Tracking Logistics, and Defense Message System (DMS). See Administrative Notes, par 8002.

2120-ADMN-2018: Prepare routine correspondence, messages, staff papers, and policy letters for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, and the information required to be published.

STANDARD: Ensure routine correspondence, messages, staff papers, and policy letters are completed per the mission requirements and references.

PERFORMANCE STEPS:
1. Prepare correspondence, as required.
2. Prepare messages, as required.
3. Prepare reports, as required.
4. Prepare staff papers, as required.
5. Prepare policy letters, as required.
6. Review all correspondence submitted by subordinates.
7. Direct correspondence filing procedures.
8. Staff correspondence to higher and adjacent agencies.

REFERENCES:
1. MCO P1070.12 Individual Records Administration Manual (IRAM)
2. MCWP 3-1 Ground Combat Operations
3. SECNAVINST 5216.5 Naval Correspondence Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2019: Manage physical security programs for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records, and ground ordnance equipment storage facilities.

STANDARD: Ensure ground ordnance equipment is safeguarded from theft/tampering per the mission requirements and references.

PERFORMANCE STEPS:
1. Validate security requirements.
2. Analyze the established security procedures for adequacy.
3. Validate compliance of security requirements for facilities.
4. Ensure personnel are security trained.
5. Conduct AA&E personnel screenings.
6. Analyze effectiveness of security programs.

REFERENCES:
1. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
2. MCO 5530.14 Marine Corps Physical Security Program Manual
3. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
4. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
5. OPNAVINST 5530.13C Physical Security and Loss Prevention
6. OPNAVINST 5530.14 Physical Security and Loss Prevention

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-ADMN-2020: Assist in the fielding of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure ground ordnance equipment is properly fielded to designated locations in a timely, efficient, and effective manner to meet mission requirements.

PERFORMANCE STEPS:
1. Validate equipment fielding requirements.
2. Review fielding documents.
3. Assist in fielding plan.
4. Coordinate placement of equipment into service.
5. Coordinate staff functions to determine priority of fielding.
6. Monitor completion of administrative functions.

REFERENCES:
1. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
2. MCO P4400.82 MIMMS Controlled Item Management Manual
3. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-TECH-2021: Serve as the technical advisor for ground ordnance weapons

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with guidelines and command philosophy from the Commanding Officer and his staff in accordance with the applicable references.

STANDARD: Ensure unit readiness is sustained at an acceptable level and provide recommendations to the Commanding Officer regarding operations and maintenance of ground ordnance equipment.

PERFORMANCE STEPS:
1. Prepare information on all matters relating to ground ordnance weapons.
2. Provide guidance on all matters relating to ground ordnance weapons.
3. Provide recommendations on all matters relating to ground ordnance weapons.
4. Conduct internal reviews.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD DIR 4160.21 Defense Disposal Manual
3. MCBUL 1200 Military Occupational Specialties Manual
4. MCBUL 3000 MARES Logistics Reportable Equipment
5. MCDP 4 Logistics
6. MCO 1510.34_ Individual Training Standards System
7. MCO 1510.66 Individual Training Standards (ITS) System for Occupational Field 21 Ordnance, Vol 2- Military Occupational Specialty 2171

8. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
9. MCO 1553.3A Marine Corps Unit Training Management
10. MCO 1650.17F USMC Military Incentive Award Program
11. MCO 3000.11C Marine Ground Readiness Reporting
12. MCO 4030.16 Marine Corps Packing and Packing Maintenance of Small Arms
13. MCO 4030.19 Special Provisions
14. MCO 4030.25 Storage and Supply Activities
15. MCO 4030.33 Packaging of Material
16. MCO 4030.36 Marine Corps Packing Manual
17. MCO 4105.2 Marine Corps Warranty Program
18. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
19. MCO 4340-1A Reporting Lost or Stolen Government Property
20. MCO 4400.150 Consumer Level Supply Policy Manual
21. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
22. MCO 4600.25 Transportation and Traffic Management
23. MCO 4600.30 Use of Intermodal Containers, Special Purpose Vans, and Tactical Vehicles
24. MCO 4610.15 Shipment of Military Equipment, Explosives and other Dangerous Articles
25. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
26. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
27. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
28. MCO 4855.10 Product Quality Deficiency Report (PQDR)
29. MCO 5100.29 Marine Corps Safety Program w/CH 1
30. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
31. MCO 5104.3 Marine Corps Radiation Safety Program
32. MCO 5215.1 The Marine Corps Directives System
33. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
34. MCO 5530.14 Marine Corps Physical Security Program Manual
35. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
36. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
37. MCO P4400.105 Radioactive Commodities DOD System
38. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
39. MCO P4400.82 MIMMS Controlled Item Management Manual
40. MCO P4600.14 Transportation Fac Guide Vol 4
41. MCO P4600.19 Commercial Service Plan
42. MCO P4610.19 Commercial Service Plan
43. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
44. MCO P4790.2 MIMMS Field Procedures Manual
45. MCO P4790.2C MIMMS Field Procedures Manual
46. MCO P4790.3 MIMMS Depot Policy Manual
47. MCO P5090.2A Environmental Compliance and Protection Manual
48. MCO P5600.31G Marine Corps Publications and Printing Regulations
49. MCRP 3-0A Unit Training Management Guide
50. MCRP 3-0B How to Conduct Training
51. MCWP 3-1 Ground Combat Operations
52. MCWP 4-1 Logistics Operations
53. NAVFAC P-307 Management of Weight Handling Equipment
54. NAVSEATM-50420-AA-RAD-010

55. OPNAVINST 5530.13C Physical Security and Loss Prevention
56. OPNAVINST 5530.14 Physical Security and Loss Prevention
57. SECNAVINST 5216.5 Naval Correspondence Manual
58. SL-1-2 Index of Authorized Publication for Equipment Support
59. SL-1-3 Index of Authorized Publication for Equipment Support
60. TB MED 524 Control of Hazards to Health from Laser Radiation
61. TI-4733-15/1 Calibration Requirements
62. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
63. TM 4700-15/1 Equipment Record Procedures
64. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
65. UM 4400-124 FMF SASSY Using Unit Procedures
66. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
67. UM MCPDS Marine Corps Publications Distribution System Users Manual
68. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Ground ordnance weapons include small arms weapons, ground ordnance Electro-Optical equipment, and artillery. See Administrative Notes, par 8002.

2120-TECH-2022: Provide technical management for the repair of ground ordnance weapons

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel, personnel records, equipment, equipment records, and maintenance facilities.

STANDARD: Ensure maintenance of ground ordnance weapons is accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Anticipate requirements.
2. Validate requirements.
3. Validate deficiencies.
4. Direct maintenance solutions
5. Manage maintenance effort.
6. Manage maintenance personnel.
7. Ensure safety of personnel.
8. Analyze effectiveness of administrative functions.
9. Focus ground equipment maintenance efforts to maximize combat effectiveness.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD 4160.21-M-1 Defense Demilitarization Manual

3. MCBUL 1200 Military Occupational Specialties Manual
4. MCBUL 3000 MARES Logistics Reportable Equipment
5. MCDP 4 Logistics
6. MCO 1510.34_ Individual Training Standards System
7. MCO 1510.66 Individual Training Standards (ITS) System for Occupational Field 21 Ordnance, Vol 2- Military Occupational Specialty 2171
8. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
9. MCO 1553.3A Marine Corps Unit Training Management
10. MCO 1650.17F USMC Military Incentive Award Program
11. MCO 3000.11C Marine Ground Readiness Reporting
12. MCO 4030.16 Marine Corps Packing and Packing Maintenance of Small Arms
13. MCO 4030.19 Special Provisions
14. MCO 4030.25 Storage and Supply Activities
15. MCO 4030.33 Packaging of Material
16. MCO 4030.36 Marine Corps Packing Manual
17. MCO 4105.2 Marine Corps Warranty Program
18. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
19. MCO 4340-1A Reporting Lost or Stolen Government Property
20. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
21. MCO 4400.150 Consumer Level Supply Policy Manual
22. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
23. MCO 4600.25 Transportation and Traffic Management
24. MCO 4600.30 Use of Intermodal Containers, Special Purpose Vans, and Tactical Vehicles
25. MCO 4610.15 Shipment of Military Equipment, Explosives and other Dangerous Articles
26. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
27. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
28. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
29. MCO 4855.10 Product Quality Deficiency Report (PQDR)
30. MCO 5100.29 Marine Corps Safety Program w/CH 1
31. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
32. MCO 5104.3 Marine Corps Radiation Safety Program
33. MCO 5215.1 The Marine Corps Directives System
34. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
35. MCO 5530.14 Marine Corps Physical Security Program Manual
36. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
37. MCO P4400.105 Radioactive Commodities DOD System
38. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
39. MCO P4400.82 MIMMS Controlled Item Management Manual
40. MCO P4600.14 Transportation Fac Guide Vol 4
41. MCO P4600.19 Commercial Service Plan
42. MCO P4610.19 Commercial Service Plan
43. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
44. MCO P4790.2 MIMMS Field Procedures Manual
45. MCO P4790.2C MIMMS Field Procedures Manual
46. MCO P4790.3 MIMMS Depot Policy Manual
47. MCO P5090.2A Environmental Compliance and Protection Manual

48. MCO P5600.31G Marine Corps Publications and Printing Regulations
49. MCRP 3-0A Unit Training Management Guide
50. MCRP 3-0B How to Conduct Training
51. MCWP 3-1 Ground Combat Operations
52. MCWP 4-1 Logistics Operations
53. NAVFAC P-307 Management of Weight Handling Equipment
54. NAVSEATM-50420-AA-RAD-010
55. OPNAVINST 5530.13C Physical Security and Loss Prevention
56. OPNAVINST 5530.14 Physical Security and Loss Prevention
57. SECNAVINST 5216.5 Naval Correspondence Manual
58. SL-1-2 Index of Authorized Publication for Equipment Support
59. SL-1-3 Index of Authorized Publication for Equipment Support
60. TB MED 524 Control of Hazards to Health from Laser Radiation
61. TI-4733-15/1 Calibration Requirements
62. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
63. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
64. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
65. UM 4400-124 FMF SASSY Using Unit Procedures
66. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
67. UM MCPDS Marine Corps Publications Distribution System Users Manual
68. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-TECH-2023: Manage unit ammunition control program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organizational & Equipment (T/O&E), ammunition records, ammunition, and personnel.

STANDARD: Ensure mission requirements are sustained per the references.

PERFORMANCE STEPS:
1. Validate ammunition requirements.
2. Register ammunition requirements.
3. Ensure safety of personnel.
4. Ensure ammunition-handling procedures are adhered to.
5. Ensure ammunition accountability is adhered to.
6. Ensure completion of administrative functions.
7. Monitor explosive drivers’ certification.

REFERENCES:
1. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
2. MCO 8010.1 Class V(W) SUP FMF CBT OP
3. MCO 8025.1 Malfunction and Deficiency Reporting
4. UM 4400-15 Marine Corps User Manual (Organic Property Control)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, Para 8002.

2120-TECH-2024: Perform duties as load test certification officer

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, and equipment records.

STANDARD: Ensure load testing is conducted, certified, and maintained per the mission requirements and references.

PERFORMANCE STEPS:
1. Validate load test condition inspection requirements.
2. Establish a load test certification schedule.
3. Certify annual condition inspections.
4. Assign test director.
5. Assign test inspectors.
6. Coordinate load testing with supporting agencies.
7. Analyze effectiveness of administrative functions.

REFERENCES:
1. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 8002.

2120-TECH-2025: Direct recovery operations for artillery

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records, and equipment.

STANDARD: Ensure the recovery of artillery pieces is safely accomplished per the mission requirements and references.

PERFORMANCE STEPS:
1. Supervise recovery training.

2. Validate recovery requirements.
3. Validate Battle Damage Assessment and Repair (BDAR).
4. Validate ORM for Recovery operations.
5. Provide technical guidance to the commander for recovery operations.
6. Supervise recovery operations

7. Analyze effectiveness of administrative functions.
8. Analyze recovery operations effectiveness.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

2120-TECH-2026: Manage the joint oil analysis program (JOAP) for ground ordnance vehicles

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records and NAVMC 10561.

STANDARD: To ensure that the oil analysis is accomplished per the mission requirements and references.

PERFORMANCE STEPS:
1. Validate equipment requiring oil analysis.
2. Validate equipment requiring oil analysis.
3. Analyze results.
4. Direct corrective action.
5. Analyze effectiveness of administrative functions.

REFERENCES:
1. MCO P4790.2C MIMMS Field Procedures Manual
2. TI-4731-14/1C MC Joint Oil Analysis Program
3. TM 4700-15/1 Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 8002.

GROUND ORD MAINT TITLE T&R MANUAL

CHAPTER 9

MOS 2125 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	9000	9-2
EVENT CODING.	9001	9-2
ADMINISTRATIVE NOTES	9002	9-2
INDEX OF INDIVIDUAL EVENTS	9003	9-3
2000-LEVEL EVENTS	9004	9-4

CHAPTER 9

MOS 2125 INDIVIDUAL EVENTS

9000. PURPOSE. This chapter contains individual training events for the Electro-Optic Instrument Repair Officer.

9001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2125). The second four digits represent the functional or duty area: Administrative Functions (ADMN), and Technical Functions (TECH). The last four digits represent the level, and identifier number of the event. This chapter contains only 2000 level events. Each individual event has an identifier number from 001 to 999.

9002. ADMINISTRATIVE NOTES

1. Various staff assignments will include but are not limited to Headquarters, Marine Corps (HQMC), post, bases, stations, divisions, regiments, battalions, and companies. Due to the scope of duties and responsibilities at each level the grade/rank structure will vary.

    a. Posts, bases, stations, regiments, and battalions – CWO3.

    b. Posts, bases, stations, and Headquarters Marine Corps – CWO4.

2. Automated systems include CD-ROM, web based information and all applicable electronic media.

9003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	2000-LEVEL EVENTS	
2125-ADMN-2001	Manage the unit ground ordnance maintenance operations	9-4
2125-ADMN-2002	Manage ground ordnance equipment maintenance resources	9-5
2125-ADMN-2003	Manage technical information and directives	9-6
2125-ADMN-2004	Monitor maintenance shop level MOS training program	9-7
2125-ADMN-2005	Manage support equipment program	9-8
2125-ADMN-2006	Manage supply support procedures	9-8
2125-ADMN-2007	Manage ground ordnance maintenance facilities	9-9
2125-ADMN-2008	Manage maintenance production schedule	9-10
2125-ADMN-2009	Manage maintenance related programs	9-10
2125-ADMN-2010	Manage preventive maintenance checks and services (PMCS) program	9-11
2125-ADMN-2011	Manage corrective maintenance program	9-12
2125-ADMN-2012	Manage modification program	9-13
2125-ADMN-2013	Monitor environmental compliance for ground ordnance equipment	9-13
2125-ADMN-2014	Manage shop safety program	9-14
2125-ADMN-2015	Manage embarkation program	9-15
2125-ADMN-2016	Manage maintenance shop information requirements	9-15
2125-ADMN-2017	Prepare routine correspondence	9-16
2125-ADMN-2018	Manage physical security program	9-17
2125-ADMN-2019	Assist in the fielding of ground ordnance equipment	9-17
2125-TECH-2020	Serve as the technical advisor for electro-optical ordnance equipment	9-18
2125-TECH-2021	Provide technical management for the repair of electro-optical ordnance equipment	9-20
2125-TECH-2022	Manage unit ammunition control program	9-22

9004. 2000-LEVEL INDIVIDUAL EVENTS

2125-ADMN-2001: Manage the unit ground ordnance maintenance operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the Table of Organization & Equipment (T/O&E), equipment records, and automated systems with internet access.

STANDARD: To ensure ground ordnance equipment remains combat ready.

PERFORMANCE STEPS:
1. Determine mission requirements.
2. Focus ground ordnance equipment maintenance effort to maximize combat effectiveness.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD 4160.21-M-1 Defense Demilitarization Manual
3. MCBUL 1200 Military Occupational Specialties Manual
4. MCBUL 3000 MARES Logistics Reportable Equipment
5. MCDP 4 Logistics
6. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
7. MCO 1553.3A Marine Corps Unit Training Management
8. MCO 1650.17F USMC Military Incentive Award Program
9. MCO 3000.11C Marine Ground Readiness Reporting
10. MCO 4030.19 Special Provisions
11. MCO 4030.25 Storage and Supply Activities
12. MCO 4030.33 Packaging of Material
13. MCO 4030.36 Marine Corps Packing Manual
14. MCO 4105.2 Marine Corps Warranty Program
15. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
16. MCO 4340-1A Reporting Lost or Stolen Government Property
17. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
18. MCO 4400.150 Consumer Level Supply Policy Manual
19. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
20. MCO 4600.25 Transportation and Traffic Management
21. MCO 4600.30 Use of Intermodal Containers, Special Purpose Vans, and Tactical Vehicles
22. MCO 4610.15 Shipment of Military Equipment, Explosives and other Dangerous Articles
23. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
24. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
25. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
26. MCO 4855.10 Product Quality Deficiency Report (PQDR)

27. MCO 5100.29 Marine Corps Safety Program w/CH 1
28. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
29. MCO 5104.3 Marine Corps Radiation Safety Program
30. MCO 5215.1 The Marine Corps Directives System
31. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
32. MCO 5530.14 Marine Corps Physical Security Program Manual
33. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
34. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
35. MCO P4400.105 Radioactive Commodities DOD System
36. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
37. MCO P4400.82 MIMMS Controlled Item Management Manual
38. MCO P4600.14 Transportation Fac Guide Vol 4
39. MCO P4600.19 Commercial Service Plan
40. MCO P4610.19 Commercial Service Plan
41. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
42. MCO P4790.2 MIMMS Field Procedures Manual
43. MCO P4790.2C MIMMS Field Procedures Manual
44. MCO P4790.3 MIMMS Depot Policy Manual
45. MCO P5090.2A Environmental Compliance and Protection Manual
46. MCO P5600.31G Marine Corps Publications and Printing Regulations
47. MCRP 3-0A Unit Training Management Guide
48. MCRP 3-0B How to Conduct Training
49. MCWP 3-1 Ground Combat Operations
50. MCWP 4-1 Logistics Operations
51. NAVFAC P-307 Management of Weight Handling Equipment
52. NAVSEATM-50420-AA-RAD-010
53. OPNAVINST 5530.13C Physical Security and Loss Prevention
54. OPNAVINST 5530.14 Physical Security and Loss Prevention
55. SECNAVINST 5216.5 Naval Correspondence Manual
56. SL-1-2 Index of Authorized Publication for Equipment Support
57. SL-1-3 Index of Authorized Publication for Equipment Support
58. TB MED 524 Control of Hazards to Health from Laser Radiation
59. TM 4700-15/1 Equipment Record Procedures
60. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
61. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
62. UM 4400-124 FMF SASSY Using Unit Procedures
63. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
64. UM MCPDS Marine Corps Publications Distribution System Users Manual
65. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2002: Manage ground ordnance equipment maintenance resources

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the Table of Organization & Equipment (T/O&E), equipment records, and automated systems with internet access, personnel, maintenance facility, and a budget.

STANDARD: To ensure maintenance resources are focused on ordnance equipment readiness and are maintained in accordance with the Commanders intent.

PERFORMANCE STEPS:
1. Determine required resources.
2. Prioritize available resources.
3. Plan employment of available resources.
4. Organize available resources.
5. Coordinate available resources.

REFERENCES:
1. MCDP 4 Logistics
2. MCO 3000.11C Marine Ground Readiness Reporting
3. MCO 4400.150 Consumer Level Supply Policy Manual
4. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
5. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
6. MCO 5215.1 The Marine Corps Directives System
7. MCO 5215.17 Marine Corps Technical Publications system
8. MCO P4400.82 MIMMS Controlled Item Management Manual
9. MCO P4790.2 MIMMS Field Procedures Manual
10. MCO P5600.31G Marine Corps Publications and Printing Regulations
11. MCWP 4-1 Logistics Operations
12. TM 4700-15/1 Equipment Record Procedures
13. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2003: Manage technical information and directives

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and mission requirements.

STANDARD: To ensure the quantity, serviceability, and accountability of all information sources is maintained.

PERFORMANCE STEPS:
1. Validate requirements.

2. Register requirements.
3. Manage the publication control program.

REFERENCES:
1. MCO 5215.1J USMC Directives System
2. MCO 5600.31 Marine Corps Publications and Printing
3. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
4. SL-1-2 Index of Authorized Publication for Equipment Support
5. SL-1-3 Index of Authorized Publication for Equipment Support
6. UM MCPDS Marine Corps Publications Distribution System Users Manual
7. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2004: Monitor maintenance shop level MOS training program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given Table of Organization & Equipment (T/O&E, automated system with internet access, personnel records, and mission requirements.

STANDARD: To ensure personnel are adequately trained to accomplish the mission.

PERFORMANCE STEPS:
1. Validate requirements.
2. Coordinate MOS training.
3. Direct MOS training.
4. Analyze MOS training effectiveness.

REFERENCES:
1. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
2. MCO 1553.3A Marine Corps Unit Training Management
3. MCO P4790.2 MIMMS Field Procedures Manual
4. MCO P4790.2 Marine Integrated Maintenance Management System
5. MCRP 3-0A Unit Training Management Guide
6. MCRP 3-0B How to Conduct Training
7. MCWP 4-1 Logistics Operations

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2005: Manage support equipment program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated systems with internet access, and equipment records.

STANDARD: To ensure support equipment is/are on hand and capable of meeting mission requirements.

PERFORMANCE STEPS:
1. Validate requirements.
2. Ensure control procedures are established.
3. Ensure Preventive Maintenance Checks and Services (PMCS) are conducted.
4. Ensure corrective maintenance is conducted.
5. Analyze effectiveness of support program.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO P4790.2 MIMMS Field Procedures Manual
3. MCO P4790.2 Marine Integrated Maintenance Management System
4. TI-4733-15/1 Calibration Requirements
5. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
6. TM 4700-15/1 Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: The term support equipment includes but is not limited to tool sets, kits, chests, hoists, jacks, and TMDE (calibration equipment). See Administrative Notes, par 9002.

2125-ADMN-2006: Manage supply support procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), automated system with internet access, unit budget, and mission requirements.

STANDARD: To ensure adequate supplies are on hand to accomplish mission requirements.

PERFORMANCE STEPS:
1. Validate supply support requirements.
2. Coordinate requisition procedures.

3. Direct the accountability of all repair parts.
4. Direct validation procedures.
5. Direct reconciliation Procedures.
6. Coordinate with internal supply support agencies.
7. Coordinate with external supply support agencies.
8. Validate budget requirements.

REFERENCES:
1. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
2. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
3. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
4. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
5. MCO P4400.82 MIMMS Controlled Item Management Manual
6. MCO P4790.2 MIMMS Field Procedures Manual
7. MCO P4790.2 Marine Integrated Maintenance Management System
8. TM 4700-15/1 Equipment Record Procedures
9. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
10. UM 4400-124 FMF SASSY Using Unit Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2007: Manage ground ordnance maintenance facilities

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Table of Organization & Equipment (T/O&E), Automated systems with internet access, maintenance facilities, and mission requirements.

STANDARD: To ensure maintenance facilities are established and properly maintained to support mission requirements.

PERFORMANCE STEPS:
1. Validate requirements.
2. Validate maintenance flow plan.
3. Validate facilities to support mission
4. Validate operational risk management procedures.
5. Prioritize use of facilities.
6. Ensure facilities are maintained.

REFERENCES:
1. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
3. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2008: Manage maintenance production schedule

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given Table of Organization & Equipment (T/O&E), automated systems with internet access, automated reports, equipment records, and maintenance resources.

STANDARD: To ensure an efficient and effective maintenance production flow is maintained in accordance with mission requirements, and resources.

PERFORMANCE STEPS:
1. Validate production capability.
2. Prioritize maintenance effort.
3. Validate available resources.
4. Analyze quality control effectiveness.

REFERENCES:
1. MCBUL 3000 MARES Logistics Reportable Equipment
2. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
3. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2009: Manage maintenance related programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization and Equipment (T/O&E), and equipment records.

STANDARD: To ensure maintenance related programs are properly employed per the mission requirements.

PERFORMANCE STEPS:
1. Validate mission requirements.

2. Manage Product Quality Deficiency Report (PDQR) program.
3. Manage Corrosion Prevention and Control (CPAC) program.
4. Manage a Quality Control (QC) program.
5. Manage unit level execution of Depot Level Maintenance programs.
6. Manage execution of Contract Logistic Support (CLS).
7. Manage execution of warranty programs
8. Manage demilitarization procedures.
9. Manage Military Awards/Incentives Program.

REFERENCES:
1. DOD 4160.21-M-1 Defense Demilitarization Manual
2. MCBUL 3000 MARES Logistics Reportable Equipment
3. MCO 1650.17F USMC Military Incentive Award Program
4. MCO 3000.11C Marine Ground Readiness Reporting
5. MCO 4105.2 Marine Corps Warranty Program
6. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
7. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
8. MCO 4855.10 Product Quality Deficiency Report (PQDR)
9. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
10. MCO P4790.2 MIMMS Field Procedures Manual
11. MCO P4790.3 MIMMS Depot Policy Manual
12. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
13. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2010: Manage preventive maintenance checks and services (PMCS) program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization and Equipment (T/O&E), and equipment records.

STANDARD: To ensure preventive maintenance checks and services are properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate PMCS requirements.
2. Validate cyclic maintenance requirements.
3. Validate special maintenance requirements.
4. Validate deferred maintenance requirements.
5. Validate PMCS schedule.
6. Manage documentation of PMCS program.
7. Manage Quality Control (QC) procedures for PMCS program.

REFERENCES:
1. MCBUL 3000 MARES Logistics Reportable Equipment
2. MCO 3000.11C Marine Ground Readiness Reporting
3. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
4. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
5. MCO P4790.2 MIMMS Field Procedures Manual
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2011: Manage corrective maintenance program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization and Equipment (T/O&E), and equipment records.

STANDARD: To ensure corrective maintenance is properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate corrective maintenance requirements.
2. Monitor applicable maintenance procedures.
3. Monitor applicable reporting procedures.
4. Analyze quality control effectiveness.
5. Coordinate with external maintenance activities.

REFERENCES:
1. MCBUL 3000 MARES Logistics Reportable Equipment
2. MCO 3000.11C Marine Ground Readiness Reporting
3. MCO 4400.150 Consumer Level Supply Policy Manual
4. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
5. MCO 4400.82 MIMMS Controlled Item Management Manual
6. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
7. MCO P4790.2 MIMMS Field Procedures Manual
8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2012: Manage modification program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization and Equipment (T/O&E), and equipment records.

STANDARD: To ensure equipment modifications are properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate equipment requiring modification.
2. Direct modification actions.
3. Verify completion of administrative requirements.
4. Analyze modification program effectiveness.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2013: Monitor environmental compliance for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, and a maintenance facility.

STANDARD: To ensure that environmental compliance procedures are observed per the mission requirements.

PERFORMANCE STEPS:
1. Validate environmental compliance requirements.
2. Coordinate with unit environmental compliance representatives.
3. Direct corrective actions.
4. Analyze effectiveness of program.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard

Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.105 Radioactive Commodities DOD System
6. MCO P4790.2 MIMMS Field Procedures Manual
7. MCO P5090.2A Environmental Compliance and Protection Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area of environment compliance encompasses but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC) Licenses, and Material Safety Data Sheets (MSDS), See Administrative Notes, par 9002.

2125-ADMN-2014: Manage shop safety program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, and maintenance facility.

STANDARD: To ensure shop safety practices are observed per the mission requirements.

PERFORMANCE STEPS:
1. Validate safety program requirements.
2. Supervise compliance with shop safety procedures.
3. Direct corrective actions.
4. Analyze effectiveness of program

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
6. MCO P4790.2 MIMMS Field Procedures Manual
7. MCO P4790.2 Marine Integrated Maintenance Management System
8. MCO P5090.2A Environmental Compliance and Protection Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area of environment compliance encompasses but is not limited to the following areas of concern: radiation safety, laser safety, Occupational Safety & Health Administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery

rooms, Personal Protective Equipment (PPE), heat conditions, fire protection, medical surveillance programs, and industrial hygiene. See Administrative Notes, par 9002.

2125-ADMN-2015: Manage embarkation program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization and Equipment (T/O&E), and equipment records.

STANDARD: To ensure ordnance equipment is properly embarked per the mission requirements.

PERFORMANCE STEPS:
1. Validate embarkation requirements.
2. Ensure that requirements are documented.
3. Coordinate with embarkation personnel.
4. Manage the preparation of equipment for embark.

REFERENCES:
1. MCO 4030.16 Marine Corps Packing and Packing Maintenance of Small Arms
2. MCO 4030.19 Special Provisions
3. MCO 4030.25 Storage and Supply Activities
4. MCO 4030.33 Packaging of Material
5. MCO 4030.36 Marine Corps Packing Manual
6. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
7. MCO 4600.25 Transportation and Traffic Management
8. MCO 4600.30 Use of Intermodal Containers, Special Purpose Vans, and Tactical Vehicles
9. MCO 4610.15 Shipment of Military Equipment, Explosives and other Dangerous Articles
10. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
11. MCO P4600.14 Transportation Fac Guide Vol 4
12. MCO P4600.19 Commercial Service Plan
13. MCO P4610.19 Commercial Service Plan

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2016: Manage maintenance shop information requirements

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure ordnance equipment information is properly completed per the mission requirements.

PERFORMANCE STEPS:
1. Validate maintenance information requirements.
2. Validate required output reports.
3. Manage completion of maintenance resource reports.
4. Analyze performance indicators of reports.
5. Conduct trend analyzes of reports.
6. Direct corrective action.
7. Review message traffic for information concerning ground ordnance equipment.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. MCO P4790.2 Marine Integrated Maintenance Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/ Automated Information Systems, MIMMS (AIS), Asset Tracking Logistics, and Defense Message System (DMS). See Administrative Notes, par 9002.

2125-ADMN-2017: Prepare routine correspondence

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, and the information required to be published (i.e., messages, staff reports, policy letters, routine correspondence, etc.).

STANDARD: To ensure correspondence, messages, staff papers, and policy letters are properly completed to meet mission requirements.

PERFORMANCE STEPS:
1. Prepare correspondence.
2. Prepare messages.
3. Prepare reports.
4. Prepare staff papers.
5. Prepare policy letters.
6. Review all correspondence submitted by subordinates.

7. Direct correspondence filing procedures.
8. Staff Correspondence to higher and adjacent agencies.

REFERENCES:
1. MCO P1070.12 Individual Records Administration Manual (IRAM)
2. SECNAVINST 5216.5 Naval Correspondence Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2018: Manage physical security program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization and Equipment (T/O&E), equipment, equipment records, and ground ordnance equipment storage facilities.

STANDARD: To ensure ground ordnance equipment is safeguarded from theft/tampering.

PERFORMANCE STEPS:
1. Validate security requirements.
2. Analyze the established security procedures for adequacy.
3. Validate compliance of security requirements for facilities.
4. Ensure personnel are security trained.
5. Conduct AA&E personnel screenings.
6. Analyze effectiveness of security program.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
3. MCO 5530.14 Marine Corps Physical Security Program Manual
4. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
5. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
6. OPNAVINST 5530.13C Physical Security and Loss Prevention
7. OPNAVINST 5530.14 Physical Security and Loss Prevention
8. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-ADMN-2019: Assist in the fielding of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records, and ground ordnance equipment storage facilities.

STANDARD: To ensure ground ordnance equipment is properly fielded to designated locations in a timely, efficient and effective manner to meet mission requirements.

PERFORMANCE STEPS:
1. Validate security requirements.
2. Analyze the established security procedures for adequacy.
3. Validate compliance of security requirements for facilities.
4. Ensure personnel are security trained.
5. Conduct AA&E personnel screenings.
6. Analyze effectiveness of security programs.

REFERENCES:
1. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
2. MCO 5530.14 Marine Corps Physical Security Program Manual
3. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
4. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
5. OPNAVINST 5530.13C Physical Security and Loss Prevention
6. OPNAVINST 5530.14 Physical Security and Loss Prevention

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-TECH-2020: Serve as the technical advisor for electro-optical ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with guidance and command philosophy from the Commanding Officer and his staff.

STANDARD: To ensure unit readiness is sustained at an acceptable level and provide recommendations to the Commanding Officer regarding operations and maintenance of electro-optical ordnance equipment.

PERFORMANCE STEPS:
1. Prepare information on matters relating to electro-optical ordnance equipment.
2. Provide guidance on matters relating to electro-optic ordnance equipment.

3. Provide recommendations on matters relating to elecro-optical ordnance equipment.
4. Conduct internal reviews.

REFERENCES:

1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD 4160.21-M-1 Defense Demilitarization Manual
3. MCBUL 1200 Military Occupational Specialties Manual
4. MCBUL 3000 MARES Logistics Reportable Equipment
5. MCDP 4 Logistics
6. MCO 1510.34_ Individual Training Standards System
7. MCO 1510.66 Individual Training Standards (ITS) System for Occupational Field 21 Ordnance, Vol 2- Military Occupational Specialty 2171
8. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
9. MCO 1553.3A Marine Corps Unit Training Management
10. MCO 1650.17F USMC Military Incentive Award Program
11. MCO 3000.11C Marine Ground Readiness Reporting
12. MCO 4030.16 Marine Corps Packing and Packing Maintenance of Small Arms
13. MCO 4030.19 Special Provisions
14. MCO 4030.25 Storage and Supply Activities
15. MCO 4030.33 Packaging of Material
16. MCO 4030.36 Marine Corps Packing Manual
17. MCO 4105.2 Marine Corps Warranty Program
18. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
19. MCO 4340-1A Reporting Lost or Stolen Government Property
20. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
21. MCO 4400.150 Consumer Level Supply Policy Manual
22. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
23. MCO 4600.25 Transportation and Traffic Management
24. MCO 4600.30 Use of Intermodal Containers, Special Purpose Vans, and Tactical Vehicles
25. MCO 4610.15 Shipment of Military Equipment, Explosives and other Dangerous Articles
26. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
27. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
28. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
29. MCO 4855.10 Product Quality Deficiency Report (PQDR)
30. MCO 5100.29 Marine Corps Safety Program w/CH 1
31. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
32. MCO 5104.3 Marine Corps Radiation Safety Program
33. MCO 5215.1 The Marine Corps Directives System
34. MCO 5215.17 Marine Corps Technical Publications system
35. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
36. MCO 5530.14 Marine Corps Physical Security Program Manual
37. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
38. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
39. MCO P4400.105 Radioactive Commodities DOD System
40. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual

41. MCO P4400.82 MIMMS Controlled Item Management Manual
42. MCO P4600.14 Transportation Fac Guide Vol 4
43. MCO P4600.19 Commercial Service Plan
44. MCO P4610.19 Commercial Service Plan
45. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
46. MCO P4790.2 MIMMS Field Procedures Manual
47. MCO P4790.2 Marine Integrated Maintenance Management System
48. MCO P4790.2C MIMMS Field Procedures Manual
49. MCO P4790.3 MIMMS Depot Policy Manual
50. MCO P5090.2A Environmental Compliance and Protection Manual
51. MCO P5600.31G Marine Corps Publications and Printing Regulations
52. MCRP 3-0A Unit Training Management Guide
53. MCRP 3-0B How to Conduct Training
54. MCWP 3-1 Ground Combat Operations
55. MCWP 4-1 Logistics Operations
56. OPNAVINST 5530.13C Physical Security and Loss Prevention
57. OPNAVINST 5530.14 Physical Security and Loss Prevention
58. SECNAVINST 5216.5 Naval Correspondence Manual
59. SL-1-2 Index of Authorized Publication for Equipment Support
60. SL-1-3 Index of Authorized Publication for Equipment Support
61. TI-4733-15/1 Calibration Requirements
62. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
63. TM 4700-15/1 Equipment Record Procedures
64. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
65. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
66. UM 4400-124 FMF SASSY Using Unit Procedures
67. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
68. UM MCPDS Marine Corps Publications Distribution System Users Manual
69. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Ground ordnance weapons include small arms weapons, ground ordnance Electro-Optical equipment, and artillery. See Administrative Notes, par 9002.

2125-TECH-2021: Provide technical management for the repair of electro-optical ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization &Equipment (T/O&E), personnel, personnel records, equipment, equipment records, and maintenance facilities.

STANDARD: To ensure maintenance of electro-optical ordnance equipment is properly accomplished per the mission requirements.

PERFORMANCE STEPS:

1. Validate requirements.
2. Validate deficiencies.
3. Validate Maintenance solutions.
4. Direct maintenance effort.
5. Direct maintenance personnel.
6. Ensure safety of personnel.
7. Analyze effectiveness of administrative functions.
8. Advise command on matters pertaining to electro-optical equipment.
9. Direct compliance of radiological safety.
10. Direct compliance of LASER safety
11. Provide technical expertise in the acquisition of electro-optical ordnance equipment.

REFERENCES:

1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD 4160.21-M-1 Defense Demilitarization Manual
3. MCBUL 1200 Military Occupational Specialties Manual
4. MCBUL 3000 MARES Logistics Reportable Equipment
5. MCDP 4 Logistics
6. MCO 1510.34_ Individual Training Standards System
7. MCO 1510.66 Individual Training Standards (ITS) System for Occupational Field 21 Ordnance, Vol 2- Military Occupational Specialty 2171
8. MCO 1553.2 Management of Marine Corps Formal Schools and Training Detachments
9. MCO 1553.3A Marine Corps Unit Training Management
10. MCO 1650.17F USMC Military Incentive Award Program
11. MCO 3000.11C Marine Ground Readiness Reporting
12. MCO 4030.16 Marine Corps Packing and Packing Maintenance of Small Arms
13. MCO 4030.19 Special Provisions
14. MCO 4030.25 Storage and Supply Activities
15. MCO 4030.33 Packaging of Material
16. MCO 4030.36 Marine Corps Packing Manual
17. MCO 4105.2 Marine Corps Warranty Program
18. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
19. MCO 4340-1A Reporting Lost or Stolen Government Property
20. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
21. MCO 4400.150 Consumer Level Supply Policy Manual
22. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
23. MCO 4400.82 MIMMS Controlled Item Management Manual
24. MCO 4600.25 Transportation and Traffic Management
25. MCO 4600.30 Use of Intermodal Containers, Special Purpose Vans, and Tactical Vehicles
26. MCO 4610.15 Shipment of Military Equipment, Explosives and other Dangerous Articles
27. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
28. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
29. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
30. MCO 4855.10 Product Quality Deficiency Report (PQDR)
31. MCO 5100.29 Marine Corps Safety Program w/CH 1
32. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order

33. MCO 5104.3 Marine Corps Radiation Safety Program
34. MCO 5215.1 The Marine Corps Directives System
35. MCO 5215.17 Marine Corps Technical Publications system
36. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
37. MCO 5530.14 Marine Corps Physical Security Program Manual
38. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
39. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
40. MCO P4400.105 Radioactive Commodities DOD System
41. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
42. MCO P4600.14 Transportation Fac Guide Vol 4
43. MCO P4600.19 Commercial Service Plan
44. MCO P4610.19 Commercial Service Plan
45. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
46. MCO P4790.2 MIMMS Field Procedures Manual
47. MCO P4790.2 Marine Integrated Maintenance Management System
48. MCO P4790.2C MIMMS Field Procedures Manual
49. MCO P4790.3 MIMMS Depot Policy Manual
50. MCO P5090.2A Environmental Compliance and Protection Manual
51. MCO P5600.31G Marine Corps Publications and Printing Regulations
52. MCRP 3-0A Unit Training Management Guide
53. MCRP 3-0B How to Conduct Training
54. MCWP 3-1 Ground Combat Operations
55. MCWP 4-1 Logistics Operations
56. OPNAVINST 5530.13C Physical Security and Loss Prevention
57. OPNAVINST 5530.14 Physical Security and Loss Prevention
58. SECNAVINST 5216.5 Naval Correspondence Manual
59. SL-1-2 Index of Authorized Publication for Equipment Support
60. SL-1-3 Index of Authorized Publication for Equipment Support
61. TI-4733-15/1 Calibration Requirements
62. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
63. TM 4700-15/1 Equipment Record Procedures
64. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
65. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
66. UM 4400-124 FMF SASSY Using Unit Procedures
67. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
68. UM MCPDS Marine Corps Publications Distribution System Users Manual
69. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

2125-TECH-2022: Manage unit ammunition control program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: WO-1, CWO-2, CWO-3, CWO-4, CWO-5

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table or Organization & Equipment (T/O&E), ammunition records, ammunition, and personnel.

STANDARD: To ensure mission requirements are sustained.

PERFORMANCE STEPS:
1. Validate ammunition requirements.
2. Register ammunition requirements.
3. Ensure safety of personnel.
4. Ensure ammunition handling procedures are adhered to.
5. Ensure ammunition accountability is adhered to.
6. Ensure completion of administrative functions.
7. Monitor explosive drivers certifications.

REFERENCES:
1. MCO 4340-1A Reporting Lost or Stolen Government Property
2. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
3. MCO 8010.1 Class V(W) SUP FMF CBT OP
4. MCO 8025.1 Malfunction and Deficiency Reporting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 9002.

GROUND ORD MAINT T&R MANUAL

CHAPTER 10

MOS 2131 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	10000	10-2
EVENT CODING.	10001	10-2
ADMINISTRATIVE NOTES.	10002	10-2
INDEX OF INDIVIDUAL EVENTS.	10003	10-3
1000-LEVEL EVENTS	10004	10-4

CHAPTER 10

MOS 2131 INDIVIDUAL EVENTS

10000. PURPOSE. This chapter contains individual training events for the Towed Artillery Systems Technician.

10001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2131). The second four digits represent the functional or duty area: Administrative Functions (ADMN), and Maintenance Functions (MAIN). The last four digits represent the level, and identifier number of the event. This chapter contains only 1000 level events. Each individual event has an identifier number from 001 to 999.

10002. ADMINISTRATIVE NOTES

1. Maintenance and/or repairs are limited to authorized echelon of maintenance.

2. Hazardous material use that may render exposure is limited to personnel who have been provided information and training prior to initial assignment to work with a hazardous chemical, who have reviewed hazardous materials material safety data sheets for personal protective equipment and special precautions while working with chemicals, and who take precautions to avoid exposure to other employees.

3. Automated systems include CD-ROM, web based information and all applicable electronic media.

10003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	1000-LEVEL EVENTS	
2131-ADMN-1001	Maintain Shop Tools	10-4
2131-ADMN-1002	Validate equipment serviceability	10-4
2131-ADMN-1003	Maintain artillery functional areas	10-5
2131-ADMN-1004	Maintain Maintenance Transactions Reports	10-6
2131-ADMN-1005	Maintain Artillery Publications and Directives Program	10-7
2131-MAIN-1006	Maintain M198 155 MM Howitzer Tools	10-7
2131-MAIN-1007	Perform M198 155 MM Howitzer PMCS	10-8
2131-MAIN-1008	Maintain M198 Howitzer Collateral Equipment	10-9
2131-MAIN-1009	Repair the M199 Cannon Tube Assembly	10-9
2131-MAIN-1010	Repair M45 Recoil Mechanism	10-10
2131-MAIN-1011	Repair M39 Carriage	10-11

10004. 1000-LEVEL INDIVIDUAL EVENTS

2131-ADMN-1001: Maintain Shop Tools

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given common tools, power tools, and precision measuring tools.

STANDARD: To ensure serviceability of tools.

PERFORMANCE STEPS:
1. Organize tools and equipment within work area.
2. Follow instructions for care of tools.
3. Observe safety regulations.
4. Observe hazardous material.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5 DOD Hazard Communication Program
3. DOD INST 6055.11 Protection of DoD Personnel from Exposure to Radiofrequency Radiation
4. FM 9-243 Use and Care of Hand Tools and Measuring Tools
5. MCO P5090.2A Environmental Compliance and Protection Manual
6. TB 43-0134 Battery Disposition and Disposal
7. TM 10209-10/1 Use and Care of Hand Tools & Measuring Tools
8. TM 9-254 General Maintenance Procedures for Fire Control Materiel
9. Material safety data sheets for hazardous materials

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s), and (3) to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

2131-ADMN-1002: Validate equipment serviceability

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment repair records/forms.

STANDARD: To validate equipment serviceability and completion of maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Utilize required publications and directives.
2. Adhere to modification instructions.
3. Adhere to calibration procedures.
4. Complete maintenance management forms needed to document work.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. MCO P5215.17 USMC Technical Publications System
3. NAVMC 2761 Catalog of Publications
4. SL-1-2 Index of Authorized Publication for Equipment Support
5. SL-1-3 Index of Authorized Publication for Equipment Support
6. TI-4733-15/1 Calibration Requirements
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
8. UM 4400-124 FMF SASSY Using Unit Procedures
9. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

2131-ADMN-1003: Maintain artillery functional areas

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given artillery functional areas, current technical information, and automated systems in a field or garrison environment.

STANDARD: To ensure the functional areas are properly maintained.

PERFORMANCE STEPS:
1. Maintain calibrations control program.
2. Maintain tool control program.
3. Maintain desktop/turnover procedures.
4. Maintain modification control program.
5. Maintain preventive maintenance program.
6. Maintain corrective maintenance program.
7. Maintain quality control program.
8. Maintain training program.
9. Maintain embark program.
10. Apply artillery operational risk management (ORM).

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
3. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
4. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual

5. MCO P4790.2 MIMMS Field Procedures Manual
6. TI-4733-15/1 Calibration Requirements
7. TI-4733-15/11F Infantry Weapons Guage Calibration Exchange Program
8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
9. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repair limited authorized level of maintenance. Automated systems include CD-ROM, and web based information.

2131-ADMN-1004: Maintain Maintenance Transactions Reports

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given current technical information and an automated system in a field or garrison environment.

STANDARD: To ensure all maintenance transaction reports are updated in a timely manner to meet mission requirements.

PERFORMANCE STEPS:
1. Analyze DPR.
2. Verify transactions on the DTL.
3. Verify exception reports.
4. Verify LM2 report.
5. Verify TAM report.
6. Submit maintenance transactions.
7. Conduct required reconciliations.

REFERENCES:
1. Local Policies/Procedures
2. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
5. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which includes but is not limited to the following: Marine Integrated Maintenance Management/ Automated Information Systems (MIMMS/AIS). Automated systems including CD-ROM and web based information.

2131-ADMN-1005: Maintain Artillery Publications and Directives Program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given current technical information and an automated system in a field or garrison environment.

STANDARD: To ensure the required publications and directives are on hand and current, in order to accomplish the mission.

PERFORMANCE STEPS:
1. Maintain publications requirements based on mission and T/E.
2. Maintain publications and directives on hand.
3. Determine deficiencies.
4. Take corrective actions as required.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. MCO P5215.17 USMC Technical Publications System
3. MCO P5215.17 USMC Technical Publications System
4. MCO P5600.31G Marine Corps Publications and Printing Regulations
5. NAVMC 2761 Catalog of Publications
6. SL-1-2 Index of Authorized Publication for Equipment Support
7. SL-1-3 Index of Authorized Publication for Equipment Support
8. TI 5600 Publication Information Marine Corps Equipment
9. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
10. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance. Automated systems include CD-ROM, web based information, and all applications of electronic media.

2131-MAIN-1006: Maintain M198 155 MM Howitzer Tools

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given tools, test equipment, cleaning materials, access to automated systems with applicable software, in a garrison or field environment.

STANDARD: To ensure tools are serviceable at all times to support mission requirements.

PERFORMANCE STEPS:
1. Maintain Common Tools.
2. Maintain Special Tools.
3. Conduct Tool Inventories Using Applicable SL-3.
4. Complete Maintenance/Administrative Forms and Records.

REFERENCES:
1. LO 9-1025-211-13 Howitzer, Medium Towed, 155MM M198
2. SC 4931-95-CL-J54 Purging Kit, Fire Control
3. TM 00640A-13&P/1 MS Pullover Gage, Complete (Kit)
4. TM 00999-23&P/1 Recoil Exercise for M198 155MM Howitzer
5. TM 08552A-13&P Operator's, Organizational, and Direct Support Maintenance Manual for Bore scope, M3
6. TM 9-1025-211-20&P Howitzer Med Towed 155MM M198
7. TM 9-1025-211-34 Howitzer Med Towed 155MM M198
8. TM 9-1025-211-34P Howitzer Med Towed 155MM M198 Parts
9. TM 9-243 Common Tools Manual
10. TM 9-4933-201-15P Pump Kit Hydraulic Oil Gun

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 10002.

2131-MAIN-1007: Perform M198 155 MM Howitzer PMCS

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Howitzer, assigned tools, access to automated systems with software, in a garrison or field environment.

STANDARD: To ensure howitzer is fully operational to meet mission requirements.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Perform organizational PMCS.
3. Perform annual PMCS.
4. Perform special PMCS.
5. Perform corrosion control.
6. Complete maintenance/administrative forms and records.

REFERENCES:
1. LO 9-1025-211-13 Howitzer, Medium Towed, 155MM M198
2. MCO P4790.2 MIMMS Field Procedures Manual
3. MCO P5090.2A Environmental Compliance and Protection Manual
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
5. TM 9-1025-211-20&P Howitzer Med Towed 155MM M198
6. TM 9-1025-211-34 Howitzer Med Towed 155MM M198

7. TM 9-1025-211-34P Howitzer Med Towed 155MM M198 Parts
8. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative notes, par 10002.

2131-MAIN-1008: Maintain M198 Howitzer Collateral Equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 18 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a howitzer, assigned tools, test equipment, access to automated systems with software, in a garrison or field environment.

STANDARD: To ensure all required maintenance is identified and repairs are made at the appropriate level of maintenance, in order to support mission requirements.

PERFORMANCE STEPS:
1. Inspect equipment for serviceability.
2. Perform fault isolation procedures.
3. Repair components.
4. Replace components.
5. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 9-1025-211-20&P Howitzer Med Towed 155MM M198
2. TM 9-1025-211-34 Howitzer Med Towed 155MM M198
3. TM 9-1025-211-34P Howitzer Med Towed 155MM M198 Parts

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Collateral equipment includes but is not limited to the chronograph, gun data display unit (GDU), M Series collimator, M1 series gunners quadrant, M2 series aiming circle, and the vehicle tail light. See Administrative Notes #1 and #3, par 10002.

2131-MAIN-1009: Repair the M199 Cannon Tube Assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 18 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M199 cannon tube, assigned tool, other applicable equipment, access to an automated system with software, in garrison or field environment.

STANDARD: To ensure all required maintenance is identified and repairs are completed at the appropriate level of maintenance, in order to support mission requirements.

PERFORMANCE STEPS:
1. Perform fault isolation procedures.
2. Perform limited technical inspection (LTI).
3. Replace components.
4. Repair components.
5. Complete maintenance/administrative forms and records.

REFERENCES:
1. LO 9-1025-211-13 Howitzer, Medium Towed, 155MM M198
2. MCO P5090.2A Environmental Compliance and Protection Manual
3. TM 9-1000-202-14 Cannon Tube Evaluation
4. TM 9-1025-211-20&P Howitzer Med Towed 155MM M198
5. TM 9-1025-211-34 Howitzer Med Towed 155MM M198
6. TM 9-1025-211-34P Howitzer Med Towed 155MM M198 Parts

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 10002.

2131-MAIN-1010: Repair M45 Recoil Mechanism

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 18 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a M45 recoil mechanism, assigned tools, other applicable equipment, access to automated systems with software, in a garrison or field environment.

STANDARD: To ensure all required maintenance is identified and repairs are completed at the appropriate level of maintenance, in order to support mission requirements.

PERFORMANCE STEPS:
1. Perform limited technical inspection.
2. Repair or replace components.
3. Complete maintenance/administrative forms and records.
4. Perform fault isolation procedures.

REFERENCES:
1. LO 9-1025-211-13 Howitzer, Medium Towed, 155MM M198
2. MCO P5090.2A Environmental Compliance and Protection Manual
3. TM 9-1025-211-20&P Howitzer Med Towed 155MM M198

4. TM 9-1025-211-34 Howitzer Med Towed 155MM M198
5. TM 9-1025-211-34P Howitzer Med Towed 155MM M198 Parts

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 10002.

2131-MAIN-1011: Repair M39 Carriage

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 18 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M39 carriage assembly, assigned tools, test equipment, access to automated systems with applicable software, in a garrison or field environment.

STANDARD: To ensure all required maintenance is identified and repairs are completed at the authorized level of maintenance, in order to support mission requirements.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Perform fault isolation procedures.
3. Repair or replace components.
4. Perform fire control alignment test and optical PM/CM.
5. Complete maintenance and /or administrative forms and records

REFERENCES:
1. LO 9-1025-211-13 Howitzer, Medium Towed, 155MM M198
2. MCO P5090.2A Environmental Compliance and Protection Manual
3. TM 9-1025-211-20&P Howitzer Med Towed 155MM M198
4. TM 9-1025-211-34 Howitzer Med Towed 155MM M198
5. TM 9-1025-211-34P Howitzer Med Towed 155MM M198 Parts

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, pear 10002. M39 carriage assembly includes but is not limited to the elevation mechanism, traversing mechanism, hydraulic systems, wheel assembly, brake system, wheel assembly, brake system, trails, equilibrator, Hypac system, manifold assembly, and cradle assembly.

GROUND ORD MAINT T&R MANUAL

CHAPTER 11

MOS 2141 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	11000	11-2
EVENT CODING	11001	11-2
ADMINISTRATIVE NOTES	11002	11-2
INDEX OF INDIVIDUAL EVENTS	11003	11-3
1000-LEVEL EVENTS	11004	11-5
2000-LEVEL EVENTS	11005	11-19

CHAPTER 11

MOS 2141 INDIVIDUAL EVENTS

11000. PURPOSE. This chapter contains individual training events for the Assault Amphibious Vehicle Repairer/Technician.

11001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2141). The second four digits represent the functional or duty area: Administrative Functions (ADMN), and Maintenance Functions (MAIN). The last four digits represent the level, and identifier number of the event. This chapter contains both 1000 and 2000 level events. Each individual event has an identifier number from 001 to 999.

11002. ADMINISTRATIVE NOTES

1. Maintenance and/or repairs are limited to authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

11003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	1000-LEVEL	
2141-MAIN-1001	Perform AAV operator PMCS	11-5
2141-MAIN-1002	Operate AAV	11-5
2141-MAIN-1003	Maintain the ordnance vehicle logbook	11-6
2141-MAIN-1004	Operate AAV/FOV communications equipment	11-6
2141-MAIN-1005	Operate AAVR7A1 recovery equipment	11-7
2141-MAIN-1006	Operate AAVR7A1 maintenance equipment	11-7
2141-MAIN-1007	Perform land-based recovery	11-8
2141-MAIN-1008	Maintain AAVR7A1 tools and test equipment	11-8
2141-MAIN-1009	Perform AAV/FOV scheduled preventive maintenance checks and services	11-9
2141-MAIN-1010	Maintain AAV/FOV suspension system	11-9
2141-MAIN-1011	Maintain AAV/FOV air aspiration system	11-10
2141-MAIN-1012	Maintain AAV/FOV power plant	11-10
2141-MAIN-1013	Maintain AAV/FOV transmission	11-11
2141-MAIN-1014	Maintain AAV/FOV engine	11-12
2141-MAIN-1015	Maintain AAV/FOV cooling tower assembly	11-12
2141-MAIN-1016	Maintain AAV/FOV final drives	11-13
2141-MAIN-1017	Maintain AAV/FOV hydraulic system	11-13
2141-MAIN-1018	Maintain AAV/FOV electrical system	11-14
2141-MAIN-1019	Maintain AAV/FOV fuel system	11-15
2141-MAIN-1020	Maintain AAV/FOV controls and linkages	11-15
2141-MAIN-1021	Maintain AAV/FOV fire suppression system	11-16
2141-MAIN-1022	Maintain AAV/FOV ventilation system	11-16
2141-MAIN-1023	Maintain AAVR7/FOV unique equipment	11-17
2141-MAIN-1024	Maintain AAVP7 Up Gunned Weapon Station (UGWS)	11-17
	2000-LEVEL	
2141-ADMN-2001	Administer maintenance management programs	11-19
2141-ADMN-2002	Perform operator training	11-19
2141-MAIN-2003	Install AAVP7A1 cold weather equipment	11-20
2141-MAIN-2004	Maintain AAV winterization kit	11-20
2141-MAIN-2005	Maintain AAV/FOV water propulsion system	11-21
2141-MAIN-2006	Recover submerged AAV/FOV	11-21
2141-MAIN-2007	Prepare AAV/FOV for shipment	11-22
2141-MAIN-2008	Perform an AAV/FOV modification	11-22
2141-MAIN-2009	Maintain stored AAV/FOV	11-23
2141-MAIN-2010	Perform quality control inspection	11-23
2141-MAIN-2011	Repair AAV/FOV cooling tower assembly	11-24
2141-MAIN-2012	Repair AAV/FOV hydraulic system	11-24
2141-MAIN-2013	Repair AAV/FOV electrical system	11-25
2141-MAIN-2014	Repair AAV/FOV fire suppression system	11-25
2141-MAIN-2015	Repair AAV/FOV recovery vehicle unique equipment	11-26
2141-MAIN-2016	Repair AAV/FOV track tension adjuster	11-27
2141-MAIN-2017	Repair hydraulic cylinder	11-27
2141-MAIN-2018	Repair bow plan actuator	11-28

2141-MAIN-2019	Repair transmission assembly	11-28
2141-MAIN-2020	Repair speed change assembly	11-29
2141-MAIN-2021	Repair AAV/FOV clutch pack assemblies	11-29
2141-MAIN-2022	Repair brake and steer assembly	11-30
2141-MAIN-2023	Repair range selector valve assembly	11-30
2141-MAIN-2024	Repair Power Take-Off (PTO) assembly	11-31
2141-MAIN-2025	Repair Marine drive friction clutch	11-31
2141-MAIN-2026	Repair fan drive friction clutch	11-32
2141-MAIN-2027	Repair power driven rotary pump	11-32
2141-MAIN-2028	Repair solenoid valve assembly	11-33
2141-MAIN-2029	Repair personnel heater	11-33
2141-MAIN-2030	Repair AAV/FOV engine	11-34
2141-MAIN-2031	Repair AAV/7A1 VT525 turbocharger	11-34
2141-MAIN-2032	Repair water pump	11-35
2141-MAIN-2033	Repair AAV/FOV cylinder heads	11-35
2141-MAIN-2034	Repair AAV/FOV final drive assembly	11-36
2141-MAIN-2035	Repair hydraulic bilge pump	11-36
2141-MAIN-2036	Repair AAV/FOV Up Gunned Weapon Station (UGWS)	11-37
2141-MAIN-2037	Repair water jet propulsion unit	11-37
2141-MAIN-2038	Repair deflector actuator assembly	11-38
2141-MAIN-2039	Repair crew vent fan	11-38
2141-MAIN-2040	Repair radiator	11-38
2141-MAIN-2041	Repair elevation mechanism	11-39
2141-MAIN-2042	Repair Power-Assisted Traverse Mechanism	11-39
2141-MAIN-2043	Repair AAV/FOV MK154 launcher	11-40

11004. 1000-LEVEL INDIVIDUAL EVENTS

2141-MAIN-1001: Perform AAV operator PMCS

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AAV, assigned tools and equipment, and access to automated system with software.

STANDARD: To ensure operational readiness by performing PMCS on a scheduled basis (i.e. weekly, monthly).

PERFORMANCE STEPS:
1. Lubricate AAV.
2. Inspect suspension system.
3. Inspect drive sprockets.
4. Inspect cooling system
5. Inspect fuel system.
6. Inspect batteries.
7. Inspect electrical system.
8. Inspect driver's vision enhancement (DVE).
9. Inspect bilge pumps.
10. Inspect components.
11. Perform fresh water wash down of engine compartment.
12. Inspect hydraulic system.
13. Inspect power plant.

REFERENCES:
1. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1
2. TM 07268B-10/1A Assault Amphibious Vehicle, Command, Model 7A1, AAVC7A1 Supplement to TM 09674A-10/3
3. TM 09674A-10/3 Amphibious Assault Vehicle, Personnel Operators' Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1002: Operate AAV

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AAV, access to automated system with software, and land and water driving course.

STANDARD: Without loss of vehicle control at any time.

PERFORMANCE STEPS:
1. Drive the AAV on a land course.
2. Drive the AAV on a water course.
3. Perform self-recovery operations.
4. Perform after operation checks and services.

REFERENCES:
1. MCO 8400.6 Licensing Procedures for Ordnance Vehicles
2. TM 09674A-10/3 Amphibious Assault Vehicle, Personnel Operators' Manual

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2141-MAIN-1003: Maintain the ordnance vehicle logbook

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given AAV/FOV operational and maintenance data.

STANDARD: To provide a history of the vehicle.

PERFORMANCE STEPS:
1. Record vehicle operation entries in logbook.
2. Record maintenance related entries in logbook.

REFERENCES:
1. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2141-MAIN-1004: Operate AAV/FOV communications equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given AAV/FOV communications equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Operate audio frequency amplifier AM-7162/VIC-2.
2. Operate frequency selector control C-11291.
3. Operate intercom C-11133/VIC-2.
4. Operate intercom C-111335/VIC-2.
5. Operate SINCGARS.

REFERENCES:
1. TM 09674A-10/3 Amphibious Assault Vehicle, Personnel Operators' Manual
2. TM 11-5280-890-10-1 Operator's Manual AN/PRC-19

2141-MAIN-1005: Operate AAVR7A1 recovery equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given AAVR7A1 recovery equipment, access to automated system with software, and the reference.

STANDARD: Support maintenance, towing, and recovery operations per the reference.

PERFORMANCE STEPS:
1. Perform PMCS on recovery equipment.
2. Operate hydraulic pump.
3. Operate winch.
4. Operate crane.

REFERENCES:
1. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1

2141-MAIN-1006: Operate AAVR7A1 maintenance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given AAVR7A1 maintenance equipment, access to automated system with software, and the reference.

STANDARD: To support mission requirements per the reference.

PERFORMANCE STEPS:
1. Perform operator PMCS on maintenance equipment.
2. Operate alternating current (AC) generator.
3. Prepare welding equipment for operation.
4. Operate air compressor.
5. Operate floodlights/work lights.

REFERENCES:
1. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1

2141-MAIN-1007: Perform land-based recovery

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mired AAV, an operational AAVR7A1, access to automated system with software, and the references.

STANDARD: To meet mission requirements per the references.

PERFORMANCE STEPS:
1. Survey recovery site.
2. Make recovery calculations.
3. Hook up rigging for recovery.
4. Perform recovery operations.
5. Stow rigging and associated hardware.

REFERENCES:
1. MCRP 4-11.4A Recovery and Battlefield Damage Assessment and Repair
2. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative notes, par 11002.2. Ensure safety precautions for cables under stress are followed.

2141-MAIN-1008: Maintain AAVR7A1 tools and test equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable tools and test equipment, cleaning materials, access to automated system with software, and the references.

STANDARD: To ensure accountability and serviceability per the references.

PERFORMANCE STEPS:
1. Inventory tools and equipment.
2. Inspect tools and equipment.
3. Perform tool maintenance/cleaning, as required.
4. Annotate discrepancies.
5. Report discrepancies per unit SOP.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1
3. Applicable SL-3

2141-MAIN-1009: Perform AAV/FOV scheduled preventive maintenance checks and services

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AAV/FOV, assigned tools, and diagnostic equipment.

STANDARD: On a quarterly basis.

PERFORMANCE STEPS:
1. Perform 50 hour/semiannual PMCS.
2. Perform 100 hour/annual PMCS.
3. Perform Up Gunned Weapon Station (UGWS) PMCS.
4. Perform PMCS on AAVR7A1.
5. Perform corrosion control procedures.

REFERENCES:
1. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1
2. TM 09674A-10/3 Amphibious Assault Vehicle, Personnel Operators' Manual
3. TM 10004A-25&P/2C Maintenance Instructions and Repair Parts List Organizational, Intermediate, and Depot Upgunned Weapons Station (UGWS) Assault Amphibious Vehicle, Personnel, Model 7A1, AAVP7A1
4. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
5. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1010: Maintain AAV/FOV suspension system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Troubleshoot suspension system.
2. Remove suspension components.
3. Inspect suspension components.
4. Perform suspension system corrective maintenance.
5. Install suspension components.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1011: Maintain AAV/FOV air aspiration system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Troubleshoot aspiration system.
2. Maintain air intake system.
3. Maintain grill and access system.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1012: Maintain AAV/FOV power plant

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Troubleshoot power plant failures.
2. Remove power plant.
3. Separate/join power plant components.
4. Test power plant with ground hop kit.
5. Install power plant.
6. Perform quality control on power plant inside vehicle.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.2. Due to power plant weight, the RAMRS coolant tower must be removed prior to performance step 1 and 4 when using a NON RAMRS AAVR7A1.

2141-MAIN-1013: Maintain AAV/FOV transmission

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and thee references.

STANDARD: To ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Troubleshoot transmission failures.
2. Perform transmission corrective maintenance.
3. Troubleshoot transmission assembly.
4. Remove all non-transmission specific components.
5. Inspect transmission components.
6. Install transmission components.
7. Maintain transmission electrical system.
8. Adjust brakes as required.
9. Adjust torque converter lock-up as required.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
2. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1014: Maintain AAV/FOV engine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Troubleshoot diesel engine failures.
2. Perform diesel engine corrective maintenance as required.
3. Troubleshoot engine.
4. Remove external engine components.
5. Inspect engine components.
6. Install engine components.
7. Maintain engine electrical systems.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
2. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1015: Maintain AAV/FOV cooling tower assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Troubleshoot cooling tower failures.
2. Troubleshoot cooling tower failures.
3. Perform cooling tower corrective maintenance as required.
4. Perform cooling tower corrective maintenance as required.
5. Inspect cooling tower assembly.
6. Disassemble cooling tower assembly.
7. Test radiator assembly.
8. Assemble cooling tower assembly.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1016: Maintain AAV/FOV final drives

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Troubleshoot final drive failure.
2. Remove final drive assembly.
3. Inspect final drive assembly.
4. Install final drive assembly.
5. Perform run-in test procedures.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1017: Maintain AAV/FOV hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Troubleshoot hydraulic system failures.
2. Perform hydraulic system corrective maintenance as directed.
3. Maintain hydraulic bilge pump circuit.

4. Maintain water steer circuit.
5. Maintain hydraulic pump and reservoir circuit.
6. Maintain hydraulic ramp control circuit.
7. Maintain hydraulic bow plane circuit.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
2. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1018: Maintain AAV/FOV electrical system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Troubleshoot electrical system failures.
2. Perform electrical system corrective maintenance as required.
3. Maintain charging system circuit.
4. Maintain starting circuit.
5. Maintain cold start circuit.
6. Maintain lights and horn circuit.
7. Maintain slave circuit.
8. Maintain smoke generation system circuit.
9. Maintain tactical navigation circuit.
10. Maintain electrical bilge pump circuit.
11. Maintain power train circuit.
12. Maintain ventilation system circuit.
13. Maintain indicator panel and components.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
2. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1019: Maintain AAV/FOV fuel system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Perform fuel system corrective maintenance as directed.
2. Troubleshoot fuel system failures.
3. Inspect fuel system components.
4. Remove fuel system components.
5. Install fuel system components.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
2. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1020: Maintain AAV/FOV controls and linkages

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Inspect controls and linkages for serviceability and fit.
2. Adjust brake controls and linkages.
3. Adjust fuel throttle controls and linkages.
4. Adjust steering linkages.
5. Adjust water jet deflector control components.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
2. TM-8F152B-25&P AAV7A1 Engine (VT400), AAVP7A1 Transmission (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1021: Maintain AAV/FOV fire suppression system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Troubleshoot automatic fire suppression system failures.
2. Inspect automatic fire suppression system components.
3. Troubleshoot manual fire suppression system failures.
4. Inspect manual fire suppression system components.
5. Utilize automatic fire suppression tester.
6. Inspect fire suppression bottles for weight.
7. Document fire suppression bottle serviceability.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1022: Maintain AAV/FOV ventilation system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Perform ventilation system corrective maintenance as directed.
2. Troubleshoot ventilation system failures.
3. Maintain crew and engine compartment ventilation system.
4. Inspect engine compartment exhaust fan.

5. Inspect ventilation duct system.
6. Inspect crew vent fan.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1023: Maintain AAVR7/FOV unique equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Maintain AAVR7 unique tools and equipment.
2. Maintain recovery equipment.
3. Maintain maintenance equipment.

REFERENCES:
1. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1
2. TM 07267B-25&P/2 AAVR7A1 Recovery Vehicle

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-1024: Maintain AAVP7 Up Gunned Weapon Station (UGWS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Troubleshoot electrical system failures.

2. Inspect UGWS.
3. Remove UGWS components.
4. Install components.
5. Remove/install UGWS from AAVP7 and/or turret maintenance stand.
6. Adjust UGWS inhibit zones and components.

REFERENCES:

1. TM 10004A-25&P/2C Maintenance Instructions and Repair Parts List Organizational, Intermediate, and Depot Upgunned Weapons Station (UGWS) Assault Amphibious Vehicle, Personnel, Model 7A1, AAVP7A1

11005. 2000-LEVEL INDIVIDUAL EVENTS

2141-ADMN-2001: Administer maintenance management programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, access to automated system with software, and the references.

STANDARD: Ensure common shop operations are conducted to meet mission requirements throughout all echelons of maintenance per the references.

PERFORMANCE STEPS:
1. Review requirements outlined in the references.
2. Review existing maintenance management procedures for compliance.
3. Ensure compliance with maintenance management programs.
4. Ensure actions are completed to correct any deficiencies.

REFERENCES:
1. MCO P4790.2 Marine Integrated Maintenance Management System
2. TM 4700-15/1 Marine Corps Equipment Forms and Records
3. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

2141-ADMN-2002: Perform operator training

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given the requirement, subordinate personnel, and the appropriate references.

STANDARD: Support mission requirements per the references.

PERFORMANCE STEPS:
1. Provide instruction and guidance on the completion of equipment records.
2. Provide instruction and guidance on the performance of operator maintenance.
3. Provide instruction and guidance on maintenance safety program.
4. Maintain records of all training conducted.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program

3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
5. MCO P4790.2 Marine Integrated Maintenance Management System
6. TM 4700-15/1 Marine Corps Equipment Forms and Records
7. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

2141-MAIN-2003: Install AAVP7A1 cold weather equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an AAVP7A1, assigned tools, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Install winterization kit.
2. Operate and test winterization kit.
3. Remove winterization kit.
4. Store winterization kit.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2141-MAIN-2004: Maintain AAV winterization kit

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure operational readiness for cold weather operations per the references.

PERFORMANCE STEPS:
1. Maintain personnel heater.
2. Maintain engine coolant heater.
3. Maintain battery box heat exchanger.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2. TM 9-2540-205-24&P Organizational, Direct Support and General Support Maintenance

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2005: Maintain AAV/FOV water propulsion system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Troubleshoot water drive system.
2. Maintain water jet deflectors.
3. Maintain water propulsion unit drive shafts.
4. Maintain right angle drives.
5. Inspect water propulsion system components.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2006: Recover submerged AAV/FOV

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given recovery assets and equipment.

STANDARD: Prevent further damage or loss of assets per the references.

PERFORMANCE STEPS:
1. Conduct recovery operations.
2. Conduct salvage operations.
3. Conduct reconditioning operations.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2141-MAIN-2007: Prepare AAV/FOV for shipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a crew, assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To protect assets from physical damage during shipment per the references.

PERFORMANCE STEPS:
1. Preserve vehicle.
2. Load and block vehicle.
3. De-preserve vehicle.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2141-MAIN-2008: Perform an AAV/FOV modification

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure vehicle upgrades are accomplished per the references.

PERFORMANCE STEPS:
1. Identify applicable modifications.
2. Perform modification.
3. Record status of modification on applicable forms and records.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. SL-1-2 Index of Authorized Publication for Equipment Support
3. TI 5600 Publication Information Marine Corps Equipment
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2141-MAIN-2009: Maintain stored AAV/FOV

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a stored AAV/FOV/RAMRS, assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To protect assets from physical damage and deterioration per the references.

PERFORMANCE STEPS:
1. Perform in-storage care of vehicle.

REFERENCES:
1. TM 09674A-10/3 Amphibious Assault Vehicle, Personnel Operators' Manual
2. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
3. TM 10004A-25&P/2C Maintenance Instructions and Repair Parts List Organizational, Intermediate, and Depot Upgunned Weapons Station (UGWS) Assault Amphibious Vehicle, Personnel, Model 7A1, AAVP7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2010: Perform quality control inspection

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a repaired piece of equipment, applicable tools and equipment, access to automated system with software, an Equipment Repair Order (ERO), and the references.

STANDARD: To Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Identify applicable reference.
2. Record inspection data on checklist.
3. Recommend corrective action, as required.
4. Record inspection on ERO.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
3. TM 10004A-25&P/2C Maintenance Instructions and Repair Parts List Organizational, Intermediate, and Depot Upgunned Weapons Station (UGWS)

Assault Amphibious Vehicle, Personnel, Model 7A1, AAVP7A1
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
5. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Reference(s) for secondary repairable are too numerous to list. Ensure applicable technical manuals are available to conduct inspections on secondary repairable. Assistance from the unit Maintenance Officer or Chief may be required.

2141-MAIN-2011: Repair AAV/FOV cooling tower assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Disassemble cooling fan assembly.
2. Inspect components.
3. Repair components.
4. Assemble cooling fan assembly.
5. Test cooling fan assembly.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2012: Repair AAV/FOV hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Diagnose hydraulic system failures.
2. Perform hydraulic system corrective maintenance repairs.
3. Direct subordinate personnel maintenance actions.
4. Maintain hydraulic ramp control circuit.
5. Maintain hydraulic plenum circuit.
6. Maintain hydraulic bow plane circuit.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2013: Repair AAV/FOV electrical system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Diagnose electrical system failures.
2. Perform electrical system corrective maintenance repairs.
3. Direct subordinate personnel maintenance actions.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2014: Repair AAV/FOV fire suppression system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Diagnose automatic fire suppression system failures.
2. Perform electrical system corrective maintenance repairs.
3. Direct subordinate personnel maintenance actions.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2015: Repair AAV/FOV recovery vehicle unique equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Maintain air compressor.
2. Maintain welder.
3. Maintain winch.
4. Maintain crane.
5. Maintain fairlead.
6. Maintain magnetic clutches.
7. Maintain AC power electrical system.
8. Diagnose AAVR unique equipment system failures.
9. Perform AAVR unique equipment system corrective maintenance repairs.
10. Direct subordinate personnel maintenance actions.
11. Maintain recovery vehicle unique hydraulic system.

REFERENCES:
1. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1
3. TM 07267B-25&P/2 AAVR7A1 Recovery Vehicle

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2016: Repair AAV/FOV track tension adjuster

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Disassemble track tension adjuster.
2. Inspect components.
3. Replace components.
4. Assemble components.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2017: Repair hydraulic cylinder

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Disassemble hydraulic cylinder.
2. Inspect components.
3. Replace components.
4. Assemble components.
5. Test hydraulic cylinder.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2018: Repair bow plan actuator

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Disassemble bow plane actuator.
2. Inspect components.
3. Replace components.
4. Assemble components.
5. Test bow plane actuator.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2019: Repair transmission assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Diagnosis transmission failures.
2. Perform corrective maintenance repairs.
3. Disassemble transmission.
4. Inspect transmission.
5. Repair transmission.
6. Assemble transmission.
7. Adjust transmission components.
8. Perform Run-in Test Procedures on dynamometer.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2020: Repair speed change assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Conduct failure analysis on speed change assembly components.
2. Disassemble speed change assembly.
3. Inspect components.
4. Test components.
5. Repair components.
6. Assemble components.
7. Verify repairs resolve the failure.
8. Assemble speed change assembly.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2021: Repair AAV/FOV clutch pack assemblies

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system and applicable software, and the reference.

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Test clutch pack assembly.
2. Disassemble clutch pack assemblies.
3. Inspect components.

4. Repair components.
5. Assemble components.
6. Test assembly.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2022: Repair brake and steer assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Inspect brake and steer assembly.
2. Disassemble brake and steer assembly.
3. Inspect components.
4. Replace components.
5. Assemble components.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 Engine (VT400), AAVP7A1 Transmission (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2023: Repair range selector valve assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Disassemble range selector valve assembly.
2. Inspect components.
3. Replace components.
4. Assemble components.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 Engine (VT400), AAVP7A1 Transmission (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2024: Repair Power Take-Off (PTO) assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Conduct failure analysis on PTO components.
2. Disassemble power take-off assembly.
3. Inspect components.
4. Repair components.
5. Assemble components.
6. Test assembly.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 Engine (VT400), AAVP7A1 Transmission (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2025: Repair Marine drive friction clutch

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a assigned tools and equipment, access the automated system

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Test marine drive friction clutch.
2. Disassemble marine drive friction clutch.
3. Inspect components.
4. Replace components.
5. Assemble components.
6. Test clutch.

REFERENCES:
1. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS

2141-MAIN-2026: Repair fan drive friction clutch

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Test fan drive friction clutch.
2. Disassemble fan drive friction clutch.
3. Inspect components.
4. Replace components.
5. Assemble components.
6. Test clutch.

REFERENCES:
1. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS

2141-MAIN-2027: Repair power driven rotary pump

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Disassemble power driven rotary pump.
2. Inspect components.
3. Repair components.
4. Assemble components.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2141-MAIN-2028: Repair solenoid valve assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per reference.

PERFORMANCE STEPS:
1. Test solenoid valve assembly.
2. Disassemble solenoid valve assembly.
3. Inspect component.
4. Repair component.
5. Assemble component.

REFERENCES:
1. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS

2141-MAIN-2029: Repair personnel heater

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Test personnel heater.
2. Disassemble personnel heater.
3. Inspect components.
4. Repair components.

5. Assemble heater assembly.
6. Test heater assembly.

REFERENCES:
1. TM 9-2540-205-24&P Organizational, Direct Support and General Support Maintenance

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2030: Repair AAV/FOV engine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Perform diesel engine diagnosis and repair.
2. Perform cylinder head and valve train diagnosis and repair.
3. Perform diesel block diagnosis and repair.
4. Perform lubrication system diagnosis and repair.
5. Perform cooling systems diagnosis and repair.
6. Perform air induction and exhaust systems diagnosis and repair.
7. Perform fuel system diagnosis and repair.
8. Perform mechanical fuel injection systems diagnosis and repair.
9. Perform quality control with/and without engine dynamometer.

REFERENCES:
1. CUMMINS MANUAL Cummins Engine Shop Manual
2. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS

2141-MAIN-2031: Repair AAV/7A1 VT525 turbocharger

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Disassemble turbocharger.
2. Inspect components.
3. Replace components.
4. Assemble components.

REFERENCES:
1. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS

2141-MAIN-2032: Repair water pump

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: To ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Disassemble water pump.
2. Inspect components.
3. Replace components.
4. Assemble components.
5. Perform quality control.

REFERENCES:
1. TM-8F152B-25&P AAV7A1 ENGINE (VT400), AAVP7A1 TRANSMISSION (HS4003A1)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 11002.

2141-MAIN-2033: Repair AAV/FOV cylinder heads

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Disassemble cylinder heads.

2. Inspect components.
3. Replace components.
4. Assemble components.
5. Test cylinder head.

REFERENCES:
1. CUMMINS MANUAL Cummins Engine Shop Manual
2. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS

2141-MAIN-2034: Repair AAV/FOV final drive assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Disassemble final drive assembly.
2. Inspect components.
3. Replace components.
4. Assemble components
5. Test final drive assembly.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2141-MAIN-2035: Repair hydraulic bilge pump

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Disassemble hydraulic bilge pump.
2. Inspect components.
3. Repair components.
4. Assemble components.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2141-MAIN-2036: Repair AAV/FOV Up Gunned Weapon Station (UGWS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Test components.
2. Disassemble components.
3. Inspect components.
4. Repair components
5. Assemble components
6. Test components.

REFERENCES:
1. TM 10004A-25&P/2C Maintenance Instructions and Repair Parts List Organizational, Intermediate, and Depot Upgunned Weapons Station (UGWS) Assault Amphibious Vehicle, Personnel, Model 7A1, AAVP7A1

2141-MAIN-2037: Repair water jet propulsion unit

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Disassemble water jet propulsion unit.
2. Inspect components.
3. Repair components.
4. Assemble components.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2141-MAIN-2038: Repair deflector actuator assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the reference.

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Disassemble deflector actuator assembly
2. Inspect components.
3. Replace components.
4. Assemble components.
5. Test cylinder.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2141-MAIN-2039: Repair crew vent fan

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the reference.

PERFORMANCE STEPS:
1. Disassemble crew vent fan.
2. Inspect components.
3. Repair components.
4. Assemble fan components.
5. Test crew vent fan.

REFERENCES:
1. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1

2141-MAIN-2040: Repair radiator

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Disassemble radiator.
2. Inspect radiator.
3. Repair radiator.
4. Assemble radiator.
5. Test radiator.

REFERENCES:
1. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS

2141-MAIN-2041: Repair elevation mechanism

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Disassemble elevation mechanism.
2. Inspect components.
3. Replace components.
4. Assemble components.
5. Perform mechanism test

REFERENCES:
1. TM 10004A-25&P/2C Maintenance Instructions and Repair Parts List Organizational, Intermediate, and Depot Upgunned Weapons Station (UGWS) Assault Amphibious Vehicle, Personnel, Model 7A1, AAVP7A1

2141-MAIN-2042: Repair Power-Assisted Traverse Mechanism

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Disassemble power-assisted traverse mechanism.
2. Inspect components.
3. Replace components.
4. Assemble components.
5. Perform mechanism test.

REFERENCES:
1. TM 10004A-25&P/2C Maintenance Instructions and Repair Parts List Organizational, Intermediate, and Depot Upgunned Weapons Station (UGWS) Assault Amphibious Vehicle, Personnel, Model 7A1, AAVP7A1

2141-MAIN-2043: Repair AAV/FOV MK154 launcher

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AAV/FOV, an AAVR7A1, a MK154 Line Charge Kit, assigned tools and equipment, access to automated system with software, and the references.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Diagnose electrical system failures.
2. Diagnose hydraulic system failures.
3. Perform electrical system corrective maintenance repairs.
4. Perform hydraulic system corrective maintenance repairs.
5. Direct subordinate personnel maintenance action.
6. Operate MK154.

REFERENCES:
1. TM 09674A-10/3 Amphibious Assault Vehicle, Personnel Operators' Manual

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GROUND ORD MAINT T&R MANUAL

CHAPTER 12

MOS 2146 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	12000	12-2
EVENT CODING	12001	12-2
ADMINISTRATIVE NOTES	12002	12-2
INDEX OF INDIVIDUAL EVENTS	12003	12-3
1000-LEVEL EVENTS	12004	12-6
2000-LEVEL EVENTS	12005	12-43

CHAPTER 12

MOS 2146 INDIVIDUAL EVENTS

12000. PURPOSE. This chapter contains individual training events for the Main Battle Tank Repairer/Technician.

12001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2146). The second four digits represent the functional or duty area: Administrative Functions (ADMN), and Maintenance Functions (MAIN). The last four digits represent the level, and identifier number of the event. This chapter contains both 1000 and 2000 level events. Each individual event has an identifier number from 001 to 999.

12002. ADMINISTRATIVE NOTES

1. Maintenance and/or repairs are limited to authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

12003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	1000-LEVEL	
2146-MAIN-1001	Maintain organizational tools and test equipment	12-6
2146-MAIN-1002	Operate M1A1 tank	12-6
2146-MAIN-1003	Perform M1A1 hull PMCS	12-7
2146-MAIN-1004	Perform M1A1 turret PMCS	12-7
2146-MAIN-1005	Troubleshoot M1A1 hull system	12-8
2146-MAIN-1006	Troubleshoot M1A1 turret system	12-9
2146-MAIN-1007	Maintain M1A1 power pack	12-9
2146-MAIN-1008	Maintain M1A1 induction system	12-10
2146-MAIN-1009	Maintain M1A1 fuel system	12-11
2146-MAIN-1010	Maintain M1A1 cooling system	12-11
2146-MAIN-1011	Maintain M1A1 electrical system	12-12
2146-MAIN-1012	Maintain M1A1 track and suspension	12-13
2146-MAIN-1013	Maintain M1A1 accessory items	12-13
2146-MAIN-1014	Maintain M1A1 hull hydraulic system	12-14
2146-MAIN-1015	Maintain M1A1 fire suppression system	12-15
2146-MAIN-1016	Maintain M1A1 NBC system	12-16
2146-MAIN-1017	Maintain M1A1 turret electrical system	12-16
2146-MAIN-1018	Maintain M1A1 turret system	12-17
2146-MAIN-1019	Maintain M1A1 turret hydraulic system	12-18
2146-MAIN-1020	Maintain M1A1 turret armament system	12-18
2146-MAIN-1021	Maintain M1A1 fire control system	12-19
2146-MAIN-1022	Maintain M1A1 turret NBC system	12-20
2146-MAIN-1023	Maintain M1A1 external auxiliary power unit (EAPU)	12-20
2146-MAIN-1024	Operate M88A2	12-21
2146-MAIN-1025	Perform M88A2 operator PMCS	12-22
2146-MAIN-1026	Troubleshoot M88A2	12-22
2146-MAIN-1027	Operate M88A2 auxiliary power unit	12-23
2146-MAIN-1028	Operate M88A2 communications system	12-24
2146-MAIN-1029	Perform M88A2 organizational PMCS	12-24
2146-MAIN-1030	Troubleshoot M88A2 system	12-25
2146-MAIN-1031	Troubleshoot M88A2 electrical systems	12-25
2146-MAIN-1032	Maintain M88A2 power plant and assemblies	12-26
2146-MAIN-1033	Maintain M88A2 electrical systems	12-27
2146-MAIN-1034	Maintain M88A2 suspension components	12-28
2146-MAIN-1035	Maintain M88A2 fire extinguisher system	12-28
2146-MAIN-1036	Maintain M88A2 hydraulic system components	12-29
2146-MAIN-1037	Maintain M88A2 main hydraulic system	12-29
2146-MAIN-1038	Maintain M88A2 gas particulate filter unit	12-30
2146-MAIN-1039	Maintain M88A2 output reduction unit	12-31
2146-MAIN-1040	Perform annual condition inspection of M88A2 recovery vehicle	12-31
2146-MAIN-1041	Maintain ground hop M88A2 main winch	12-32
2146-MAIN-1042	Perform AVLB chassis/launcher PMCS	12-33
2146-MAIN-1043	Troubleshoot AVLB chassis/launcher	12-33
2146-MAIN-1044	Maintain AVLB power plant	12-34
2146-MAIN-1045	Maintain AVLB engine	12-34

2146-MAIN-1046	Maintain AVLB fuel system	12-35
2146-MAIN-1047	Maintain AVLB electrical system	12-36
2146-MAIN-1048	Maintain AVLB transmission and shifting components	12-36
2146-MAIN-1049	Maintain AVLB final drive	12-37
2146-MAIN-1050	Maintain AVLB brake system	12-38
2146-MAIN-1051	Maintain AVLB interior components	12-39
2146-MAIN-1052	Maintain AVLB gauges	12-39
2146-MAIN-1053	Maintain AVLB fire suppression system	12-40
2146-MAIN-1054	Maintain AVLB hydraulic system	12-41
2146-MAIN-1055	Maintain AVLB bridge	12-41
	2000-LEVEL	
2146-ADMN-2001	Manage maintenance functional areas	12-43
2146-ADMN-2002	Administer maintenance management programs	12-43
2146-ADMN-2003	Supervise maintenance management programs	12-44
2146-ADMN-2004	Perform MIMMS/ATLASS II+ systems administration	12-45
2146-ADMN-2005	Conduct MOS training	12-45
2146-MAIN-2006	Troubleshoot M1A1 mine clearing blade	12-46
2146-MAIN-2007	Maintain M1A1 final drive	12-46
2146-MAIN-2008	Maintain M1A1 brake system	12-47
2146-MAIN-2009	Maintain M1A1 steering system	12-48
2146-MAIN-2010	Maintain M1A1 hull exterior	12-48
2146-MAIN-2011	Maintain M1A1 interior hull assembly	12-49
2146-MAIN-2012	Maintain M1A1 bilge pump	12-50
2146-MAIN-2013	Maintain M1A1 mine clearing blade	12-50
2146-MAIN-2014	Maintain M88A2 hull and related components	12-51
2146-MAIN-2015	Maintain M88A2 personal heater	12-51
2146-MAIN-2016	Maintain M88A2 auxiliary power unit	12-52
2146-MAIN-2017	Maintain M88A2 smoke grenade launchers	12-53
2146-MAIN-2018	Maintain M88A2 exhaust smoke generating system	12-53
2146-MAIN-2019	Maintain AVLB track and suspension system	12-54
2146-MAIN-2020	Maintain AVLB steering system	12-54
2146-MAIN-2021	Maintain AVLB exterior components	12-55
2146-MAIN-2022	Maintain AVLB personnel heater	12-56
2146-MAIN-2023	Maintain AVLB smoke generator system	12-56
2146-MAIN-2024	Maintain AVLB smoke grenade launcher	12-57
2146-MAIN-2025	Apply deep water fording kit to M88A2	12-58
2146-MAIN-2026	Repair AGT turbine engine	12-58
2146-MAIN-2027	Maintain M1A1 fuel system components	12-59
2146-MAIN-2028	Maintain M1A1 cooling system components	12-60
2146-MAIN-2029	Maintain M1A1 hull electrical system components	12-60
2146-MAIN-2030	Repair M1A1 final drive assembly	12-61
2146-MAIN-2031	Maintain M1A1 steering assembly	12-61
2146-MAIN-2032	Maintain M1A1 chassis accessories	12-62
2146-MAIN-2033	Maintain M1A1 fire suppression equipment components	12-63
2146-MAIN-2034	Maintain M1A1 turret electrical system components	12-63
2146-MAIN-2035	Maintain M1A1 turret hydraulic system components	12-64
2146-MAIN-2036	Maintain M1A1 turret assembly components	12-65
2146-MAIN-2037	Maintain M1A1 armament system components	12-65
2146-MAIN-2038	Maintain M1A1 mine clearing blade components	12-66
2146-MAIN-2039	Maintain X11003B transmission	12-66

2146-MAIN-2040	Maintain external auxiliary power unit (EAPU)	12-67
2146-MAIN-2041	Troubleshoot M88A2	12-68
2146-MAIN-2042	Maintain M88A2 systems	12-68
2146-MAIN-2043	Maintain M88A2 turbo supercharger	12-69
2146-MAIN-2044	Repair M88A2 engine	12-69
2146-MAIN-2045	Repair M88A2 transmission	12-70
2146-MAIN-2046	Repair M88A2 Output Reduction Unit (ORU)	12-71
2146-MAIN-2047	Maintain M88A2 fuel system	12-71
2146-MAIN-2048	Maintain AVLB engine	12-72
2146-MAIN-2049	Maintain AVLB fuel system	12-72
2146-MAIN-2050	Maintain AVLB electrical system	12-73
2146-MAIN-2051	Maintain AVLB transmission	12-73
2146-MAIN-2052	Maintain AVLB brake system components	12-74
2146-MAIN-2053	Maintain AVLB suspension system	12-74
2146-MAIN-2054	Maintain AVLB fire suppression system	12-75
2146-MAIN-2055	Maintain AVLB launcher	12-75
2146-MAIN-2056	Maintain AVLB final drive	12-76
2146-MAIN-2057	Maintain intermediate tools and test equipment	12-76

12004. 1000-LEVEL INDIVIDUAL EVENTS

2146-MAIN-1001: Maintain organizational tools and test equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable tools and test equipment, and access to automated system with software.

STANDARD: To ensure accountability and serviceability.

PERFORMANCE STEPS:
1. Perform user maintenance for common tools.
2. Perform user maintenance for special tools.
3. Perform user maintenance for test equipment.
4. Perform user maintenance for M1A1 tools.
5. Perform user maintenance for M88A2 tools.
6. Perform user maintenance for AVLB tools.
7. Inventory kits, sets, chests, and equipment, and complete forms and records.
8. Requisition required items and reconcile with supporting supply source.
9. Complete maintenance and/or administrative records and procedures.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1002: Operate M1A1 tank

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1 tank and a ramp or test drive area.

STANDARD: To determine operational readiness.

PERFORMANCE STEPS:
1. Perform pre-operation checks.
2. Operate vehicle as per instructions.

3. Perform during operational checks.
4. Perform after operational checks.

REFERENCES:
1. TM 08953A-10/1-1, Vol 1 Operator Controls, PMCS, and Operation Under Usual Conditions
2. TM 08953A-10/1-2, Vol 2 Unusual Conditions, Troubleshooting, and Maintenance

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Distance Learning Products: MCI 18.43, Operating the M1A1 Tank.

2146-MAIN-1003: Perform M1A1 hull PMCS

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system, applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Perform semiannual PMCS.
3. Perform biannual/annual PMCS.

REFERENCES:
1. TM 08953A-10/1-1, Vol 1 Operator Controls, PMCS, and Operation Under Usual Conditions
2. TM 08953A-10/1-2, Vol 2 Unusual Conditions, Troubleshooting, and Maintenance

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1004: Perform M1A1 turret PMCS

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and equipment, assistant(s), and access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Perform semiannual PMCS.
3. Perform biannual/ annual PMCS.
4. Perform bore scope PMCS.
5. Perform erosion gage PMCS.

REFERENCES:
1. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1
4. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1005: Troubleshoot M1A1 hull system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given M1A1 hull system components, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To determine corrective maintenance requirements.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Identify and isolate malfunctions.
3. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1
4. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps must include inspection and troubleshooting of the following: in-tank fuel pump, driver's instrument panel, driver's master control panel, driver's alert panel, temperature control unit, digital electronic control unit,

hull power distribution box, hull networks distribution box, dome light, hull wiring harnesses, and shift control assembly.

2146-MAIN-1006: Troubleshoot M1A1 turret system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given M1A1 turret system components, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To determine corrective maintenance requirements.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Identify and isolate malfunctions.
3. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps must include inspection and checking the following: turret networks box, loader's panel, dome light, tank commander's panel, commander's weapon station control handle, commander's weapon station power control unit, gun/turret drive electronic unit, commander's control assembly, gunner's control assembly, elevating mechanism, traversing mechanism, turret wiring harness, and hand pump assembly.

2146-MAIN-1007: Maintain M1A1 power pack

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A11 power pack, appropriate lifting device, necessary tools and equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Isolate/Identify discrepancies and unserviceable parts or components.
3. Perform corrective maintenance, as required.
4. Complete maintenance and/or administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: engine rear exhaust duct seals, exhaust duct door assembly panel, exhaust duct nut, covers, screw assembly chain and washers, turbine exhaust duct, engine step plate, plenum-to-engine plain seal, ground hop power pack, and ground hop pressure fluid filter.

2146-MAIN-1008: Maintain M1A1 induction system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: pre-cleaner-baffle,

air cleaner assembly intake filter elements, air cleaner clamp, and pulse jet air system.

2146-MAIN-1009: Maintain M1A1 fuel system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, appropriate lift capability, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: testing and replacing fuel nozzle, and troubleshooting fuel pumps.

2146-MAIN-1010: Maintain M1A1 cooling system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: oil cooler fan ducts, oil cooler fan accessory gear box, cleaning left or right side oil cooler assembly, oil cooler fan, fan drive unit, double universal propeller shaft, engine and left side transmission oil cooler fan shroud seal, right side transmission oil cooler fan shroud seal, and oil cooler fan drive unit oil tube assemblies.

2146-MAIN-1011: Maintain M1A1 electrical system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes training on the following systems and components: generator, voltage regulator, starter motor 100-amp electromagnetic relay, ignition electrical, ignition exciter, engine starter, driver's instrument panel, driver's master control panel, driver's

alert panel, air temperature controller, digital electronic control unit and components, hull networks distribution box and components, disconnect panel junction box, stoplight switch assembly and electrical bracket, headlights and components, stoplight-taillight and components, terminal boards (buss bar), turret networks box, tank commander's panel, turret distribution valve, slip ring, loader's panel, and maintaining batteries, wiring harnesses, and cable assemblies.

2146-MAIN-1012: Maintain M1A1 track and suspension

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, appropriate lift capability, assistant(s), and access to automated system with software, and the references.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: suspension torsion bars, torsion bar cover, track support roller, idler wheel hub and arm assembly, upper spindle oil seal retainer, track adjusting link replacement, solid rubber road wheel, shock absorber torsion bar housing assembly maintenance, road wheel hub and arm assembly, and track assembly.

2146-MAIN-1013: Maintain M1A1 accessory items

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)
6. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
7. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
8. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1
9. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes training the following systems and components: vehicular (personnel) heater, smoke generator components, driver periscope wiper, and external auxiliary power unit (EAPU).

2146-MAIN-1014: Maintain M1A1 hull hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)

4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes training on the following systems and components: auxiliary hydraulic rotary pump, main hydraulic centrifugal pump, hydraulic distribution manifold, hydraulic distribution manifold pressure switch, hydraulic reservoir, hydraulic filter manifold tube assembly, hydraulic manifold filter elements, hydraulic heat exchanger and mounting bracket, hydraulic hull assemblies, tube assemblies, and fittings.

2146-MAIN-1015: Maintain M1A1 fire suppression system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes training on the following systems and components: fire sensor, fire extinguisher control amplifier, reset switch assembly, fire extinguisher tube assemblies and nipples, valve and bottle assemblies, fire extinguisher manifold, fire extinguisher system manual controls, and fire extinguisher lines, hoses, and fittings inspections.

2146-MAIN-1016: Maintain M1A1 NBC system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes training on the following systems and components: particle separator, duct assemblies, hose and tube assemblies, NBC filter assembly, Ventura air circulating duct and pressure regulating flow valve, prioritization valve, and NBC system components, switches inspection and replacement.

2146-MAIN-1017: Maintain M1A1 turret electrical system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1
4. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes training on the following systems and components: commander's control panel assembly, loader's panel, turret networks box, hull/turret slip ring assembly, blasting machine, commander's weapon station azimuth drive system, commander's weapon station power control unit, turret electrical wiring harnesses and cable assemblies, turret switches, and turret dome light.

2146-MAIN-1018: Maintain M1A1 turret system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1
4. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes training on the following systems and components: turret exterior storage boxes, turret ammunition doors, safety guards and pads, turret ammunition racks, turret blow off panels, NBC pressure relief guard and cover, turret bustle ammunition compartment, and turret interior stowage boxes.

2146-MAIN-1019: Maintain M1A1 turret hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1
4. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes training on the following systems and components: traverse servomechanism assembly, elevation servomechanism assembly, turret distribution valve, hand pump assembly, manual elevation/main accumulator assemblies, and turret hydraulic lines and fittings.

2146-MAIN-1020: Maintain M1A1 turret armament system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1
4. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs are limited to the authorized echelon of maintenance. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance. Formal school training for this task includes the following: 120mm gun, smoke grenade launcher, loader's weapon mount, coaxial machine gun mount, and commander's weapon mount.

2146-MAIN-1021: Maintain M1A1 fire control system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1
4. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: commander's extension, gunner's primary sight, commander's control assembly, line-of-sight electronics unit, commander's weapon station manual drive assembly, commander's weapon station unity tank periscope and junction box, commander's weapon station sight, handle, and linkage computer electronics unit, computer control panel, gun/turret drive electronics unit, crosswind sensor, cant unit assembly, rate gyroscopes, elevation mechanism disk filter, gunner's control grip assembly, laser rangefinder, thermal imaging system, collimator assembly, and gunner's auxiliary sight.

2146-MAIN-1022: Maintain M1A1 turret NBC system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1
4. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: commanders, gunners, and loader's NBC equipment, and gas particulate filter system.

2146-MAIN-1023: Maintain M1A1 external auxiliary power unit (EAPU)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, assigned tools, test equipment, and assistant(s).

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/3-1 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-20/3-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-20/3-3 Tank, Combat, Full Tracked 120-MM Gun, M1A1

4. TM 08953A-20/3-4 Tank, Combat, Full Tracked 120-MM Gun, M1A1
5. TM 08953A-24P/1-1 TANK M1A1 (120MM GUN)
6. TM 08953A-24P/2-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1024: Operate M88A2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, and a suitable driving area.

STANDARD: To support maintenance, towing, and recovery operations.

PERFORMANCE STEPS:
1. Perform pre-operation checks.
2. Perform during operation checks.
3. Perform after operation checks.
4. Operate in normal/adverse conditions.
5. Perform recovery operations.
6. Perform towing operations.
7. Perform lifting operations.
8. Operate vehicle armament system.
9. Maintain logbook.

REFERENCES:
1. FM 20-22 Vehicle Recovery Operations
2. FM 23-65 Browning Machinegun Caliber .50 HB, M2
3. FM 31-70 Basic Cold Weather Operations
4. FM 31-71 Northern Operations
5. LO 9-2350-256-12 Recovery Vehicle, Full Tracked, Medium
6. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
7. MCRP 4-11.4A Recovery and Battlefield Damage Assessment and Repair
8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
9. TM 9-1005-213-10 Operator's Manual Machine Gun, Cal .50
10. TM 9-207 Operations and Maintenance of Ordnance Materiel in Extreme Cold Weather
11. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
12. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy
13. TM 9-237 Welding Theory and Application

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Steps include the following: starting/stopping main engine, driving the M88A2, stopping the M88A2, performing towing and recovery operations, preparing hydraulic system for operations, operating the spade, boom, hoist winch, main winch, gas-particulate filter unit, smoke generator system, M239 smoke grenade system, and .50-caliber machine gun, use of lockout blocks and deep water fording kit, and maintaining the logbook.

2146-MAIN-1025: Perform M88A2 operator PMCS

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, assigned tools, test equipment, suitable driving area, assistant (s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform pre-operation checks.
2. Perform during operation checks and services.
3. Perform post-operation checks.
4. Perform weekly operation checks and services.

REFERENCES:
1. LO 9-2350-256-12 Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
3. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include inspection and servicing the following items as required: track and suspension system, vision devices, .50-caliber machine gun and mount, instruments, dome and blackout marker lights, engine air cleaner, welding equipment, M88A2 under usual condition, gas-particulate filter unit, deep water fording kit, and M239 smoke grenade system.

2146-MAIN-1026: Troubleshoot M88A2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, assigned tools and test equipment, and access to automated system with software.

STANDARD: To determine corrective maintenance requirements/

PERFORMANCE STEPS:
1. Operate vehicle as per instructions.
2. Identify any/all malfunctions.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 12002. Steps include inspecting and checking the following items: engine, operator's control, transmission, winches and booms, auxiliary hydraulic system, light system, auxiliary power unit, ventilation blower, personnel heater, tracks and suspension, gas-particulate system, M239 smoke grenade system, and exhaust smoke generating system.

2146-MAIN-1027: Operate M88A2 auxiliary power unit

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2.

STANDARD: To support maintenance and recovery operations.

PERFORMANCE STEPS:
1. Perform pre-operation checks.
2. Perform during operation checks.
3. Conduct emergency hydraulic operations.
4. Conduct refuel/defuel operations.
5. Operate impact wrench.
6. Perform post-operation checks upon completion.
7. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1028: Operate M88A2 communications system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2 with communications equipment.

STANDARD: To ensure effective communication in a combat and garrison environment.

PERFORMANCE STEPS:
1. Perform preventive maintenance checks and services (PMCS).
2. Setup radios for operation.
3. Operate radio sets.
4. Operate intercommunication set.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1029: Perform M88A2 organizational PMCS

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, a driving area, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M88A2 to determine malfunctions.
2. Perform limited technical inspection (LTI).
3. Perform semiannual PMCS.
4. Remove unserviceable parts or components.

5. Repair/Replace unserviceable parts or components.
6. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1030: Troubleshoot M88A2 system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, a driving area, assistant(s), access to automated system with software.

STANDARD: To determine corrective maintenance requirements.

PERFORMANCE STEPS:
1. Operate M88A2 to determine malfunctions.
2. Perform limited technical inspection (LTI).
3. Remove unserviceable parts or components.
4. Repair/Replace unserviceable parts or components.
5. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: engine, fuel, and air intake/exhaust systems, oil cooling system, transmission center section and output reduction gears, driver controls, tracks and suspension, main and hoist winches, hoisting boom, spade, impact wrench, fuel transfer pump, main hydraulic system, auxiliary hydraulic system, auxiliary power unit, personnel heater, gas-particulate filter unit, M239 smoke grenade system, and exhaust smoke generating system.

2146-MAIN-1031: Troubleshoot M88A2 electrical systems

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To determine corrective maintenance requirements.

PERFORMANCE STEPS:
1. Operate M88A2 to determine malfunctions.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: master relay system and slave receptacle, main engine manifold preheater and starting system, main engine fuel supply electrical system, main engine monitoring system, governor control system, transmission monitoring system, generator, APU starting system, APU fuel system, APU monitoring system, vehicle warning system, vehicle warning system-external vehicle warning horn, personnel heater and control system, interior lighting system, exterior lighting system, filter unit, gas-particulate, hydraulic reservoir monitoring system, smoke generating system, and main engine generator blower.

2146-MAIN-1032: Maintain M88A2 power plant and assemblies

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: main engine fuel, air intake and exhaust system, main engine cooling system, transmission, and removing/replacing power plant.

2146-MAIN-1033: Maintain M88A2 electrical systems

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: charging/starting system and vehicle batteries, gauge and switch panels, lighting system, and vehicle wiring.

2146-MAIN-1034: Maintain M88A2 suspension components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: bumper springs and brackets, drive sprockets, compensating idler arm components, road wheel arm and hub components, shocks, torsion bars, track support roller components, and track.

2146-MAIN-1035: Maintain M88A2 fire extinguisher system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: removal/replacement and weighing of fire bottles.

2146-MAIN-1036: Maintain M88A2 hydraulic system components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1. Formal school training for this task includes the following: main winch and spade assembly, hoist winch assembly, wire rope and roller assembly, and hoisting boom assembly.

2146-MAIN-1037: Maintain M88A2 main hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

DESCRIPTION: Maintain M88A2 main hydraulic system

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1038: Maintain M88A2 gas particulate filter unit

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1039: Maintain M88A2 output reduction unit

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, assigned tools, test equipment, and assistant(s).

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)
6. TM 08953A-24P/1-1 TANK M1A1 (120MM GUN)
7. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
8. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1040: Perform annual condition inspection of M88A2 recovery vehicle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, applicable forms, and an assistant.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Inspect lifting components.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1041: Maintain ground hop M88A2 main winch

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, assigned tools, test equipment, suitable driving area, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include inspection, repair, and/or replacement of the following: pulling the nose cone, paying out the main winch, and limit switch adjustments.

2146-MAIN-1042: Perform AVLB chassis/launcher PMCS

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Perform semiannual PMCS.
3. Remove unserviceable parts or components.
4. Repair/Replace unserviceable parts or components.
5. Complete maintenance/administrative records and procedures.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-1043: Troubleshoot AVLB chassis/launcher

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: Determine corrective maintenance requirements.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: power plant, transmission, brakes, steering, hull power generator/regulator, fire extinguisher, and hydraulics.

2146-MAIN-1044: Maintain AVLB power plant

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: replacing power plant, disconnecting power take-off, and testing power plant using the ground hop.

2146-MAIN-1045: Maintain AVLB engine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: engine oil cooler and transmission oil cooler.

2146-MAIN-1046: Maintain AVLB fuel system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.2. Formal school training for this task includes the following: fuel pumps, engine fuel pump, and air cleaner system.

2146-MAIN-1047: Maintain AVLB electrical system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: engine generator and regulator assemblies, starter, engine fuel injector pump, master control panel, batteries, and associated components.

2146-MAIN-1048: Maintain AVLB transmission and shifting components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: shifting control and related parts, transmission oil breather tube, transmission main oil filter element, transmission side oil strainer assembly, adjusting shift linkage, neutral shift switch, and servo bands.

2146-MAIN-1049: Maintain AVLB final drive

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch

7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: final drives, final drive air pressure relief drive, and universal joint.

2146-MAIN-1050: Maintain AVLB brake system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: master cylinder, brake pressure gauge, brake quick disconnect and hose assembly, brake left and right hand slave cylinders, tube assemblies, brake control housing, parking brake control assemblies, bell crank, and bleed/adjust hydraulic brake system.

2146-MAIN-1051: Maintain AVLB interior components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: engine access covers, bulkhead PTO ring, and slip ring box access cover.

2146-MAIN-1052: Maintain AVLB gauges

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch

7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: speedometer, speedometer flexible shaft assembly, speedometer adapter rotating bracket and speedometer shaft adapter assemblies, tachometer, tachometer bulkhead shaft adapter, tachometer flexible shaft assemblies, and tachometer-speedometer mounting bracket.

2146-MAIN-1053: Maintain AVLB fire suppression system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: interior release mechanism, exterior release handle body assembly, fixed fire extinguisher outside release handle control assembly, control valve assembly, fixed fire extinguisher cylinder, fixed fire extinguisher delay bottle and tubes, fixed fire extinguisher mounting bracket, fixed fire extinguisher manifold, discharge valves, tubes, engine compartment discharge manifold, and related parts.

2146-MAIN-1054: Maintain AVLB hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-203-14 Operator's Manual for AVLB
8. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Formal school training for this task includes the following: valves and associated hydraulics, filter, hose assemblies, hydraulic cylinders, and hydraulic reservoir components.

2146-MAIN-1055: Maintain AVLB Bridge

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, assigned tools, test equipment, and assistant(s).

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:

1. TM 5-5420-203-14 Operator's Manual for AVLB

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

12005. 2000-LEVEL INDIVIDUAL EVENTS

2146-ADMN-2001: Manage maintenance functional areas

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, and access to automated system with software.

STANDARD: To ensure common shop operations are conducted to meet mission requirements at all levels of maintenance.

PERFORMANCE STEPS:
1. Ensure shop areas are designated, organized, and maintained.
2. Manage support and test equipment use, inventory, and maintenance.
3. Maintain electronic and paper-based technical publications libraries.
4. Coordinate supply support requirements.
5. Maintain preventive/corrective maintenance schedules.
6. Coordinate maintenance cycles and priority designators.
7. Ensure shop safety procedures are established and followed.
8. Ensure appropriate disposal of hazardous waste.
9. Conduct routine and unscheduled internal inspections.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
3. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
4. MCO 4855.10 Product Quality Deficiency Report (PQDR)
5. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
6. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
7. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
8. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
9. MCO P4790.2 MIMMS Field Procedures Manual
10. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
11. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

2146-ADMN-2002: Administer maintenance management programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given ground equipment maintenance publications and forms in a garrison or field environment, assistance and supervision, and access to automated system with software.

STANDARD: To ensure common shop operations are conducted to meet mission requirements at all levels of maintenance.

PERFORMANCE STEPS:
1. Review requirements outlined in the references.
2. Review existing maintenance management procedures for compliance.
3. Comply with maintenance management programs, as applicable: Modification Control Program, Warrant Program, Joint Oil Analysis Program, Inspect Repair Only as Necessary Program, WIR Program, Quality Control Program, Administrative Deadline Program, Contact Team Program, Maintenance Stand-Down Program, Corrosion Prevention and Control Program, Hazardous, Communication Program, Tool Control and Calibration Programs, and Embarkation Program.
4. Correct any deficiencies.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
3. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

2146-ADMN-2003: Supervise maintenance management programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given the requirement and subordinate personnel.

STANDARD: To ensure maintenance management programs are operated smoothly and effectively to support mission requirements.

PERFORMANCE STEPS:
1. Provide instruction and guidance on the completion of equipment records.
2. Provide instruction and guidance on performance of operator maintenance.
3. Provide instruction and guidance on maintenance safety program.
4. Maintain records of all training conducted.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
5. MCO P4790.2 MIMMS Field Procedures Manual
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
7. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Maintenance and/or repairs limited to authorized echelon of maintenance.

2146-ADMN-2004: Perform MIMMS/ATLASS II+ systems administration

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the requirement, and access to automated system with software.

STANDARD: To adequately account for and document maintenance services.

PERFORMANCE STEPS:
1. Perform mailbox maintenance.
2. Identify preventive maintenance requirements.
3. Develop preventive maintenance schedule.
4. Update job status.
5. Update man-hours.
6. Update priority.
7. Update meters.
8. Validate modification requirements.
9. Develop calibration schedule.
10. Develop pre-expended bin (PEB)/parts package.
11. Create adhoc report.
12. Analyze adhoc report.
13. Perform evacuation procedures.

REFERENCES:
1. MCO P4790.2 Marine Integrated Maintenance Management System

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2146-ADMN-2005: Conduct MOS training

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given subordinate ordnance maintenance personnel, an annual training plan, and equipment and supplies.

STANDARD: To provide adequate sustainment and career progression training for subordinates.

PERFORMANCE STEPS:
1. Review the annual training plan for training requirements.
2. Identify individual training requirements.
3. Develop a training schedule.
4. Apply training program policies and procedures.
5. Schedule support requirements, as needed.
6. Conduct ordnance maintenance training appropriate to unit size and mission.
7. Participate in unit training evaluations and inspections.
8. Maintain records of all training conducted.

REFERENCES:
1. MCO 1553.3A Marine Corps Unit Training Management
2. MCRP 3-0A Unit Training Management Guide
3. MCRP 3-0B How to Conduct Training

2146-MAIN-2006: Troubleshoot M1A1 mine clearing blade

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1 equipped with mine clearing blade, necessary tools and test equipment, assistant(s), access to automated system and applicable software.

STANDARD: To determine corrective maintenance requirements.

PERFORMANCE STEPS:
1. Inspect mine clearing blade and control system.
2. Identify/Isolate malfunctions.
3. Complete maintenance and/or administrative records and procedures.

REFERENCES:
1. TM 2590-10/1 Mine Clear Blde F/MI IPM1 M1A1
2. TM 2590-23&P/2 Mine Clear Blde F/MI IPM1 M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include checking raising indicator lamp, moldboard, and mine clearing blade motor.

2146-MAIN-2007: Maintain M1A1 final drive

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include servicing the following: final drive tube assembly, final drive, final drive packing retainer and packing, broken final drive cam headed straight pin or disconnect cam, and connecting final drive.

2146-MAIN-2008: Maintain M1A1 brake system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include servicing the following: dial pressure gauge, parking brake components, parking brake lock, service brake control components, and adjusting parking brake control assemblies, and service brake control assembly.

2146-MAIN-2009: Maintain M1A1 steering system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1, necessary tools and test equipment, appropriate lift capability, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, 12002. Steps include servicing the following: replacing throttle steering assembly components, steering system components, and shift control assembly; adjusting throttle control and steering linkages; and testing throttle, steering, and shift control assemblies.

2146-MAIN-2010: Maintain M1A1 hull exterior

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include servicing the following: top deck and grilles, sponson, battery, precleaner, engine covers, doors, and grille, NBC sponson box metal grille and access covers, upper ammunition armored plates, lower blow-off plates, hull skirts and vehicular fenders, rear grille mounting hinges, cracked skirts, repair/replace tow pintle assembly, and maintaining inflatable seat.

2146-MAIN-2011: Maintain M1A1 interior hull assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include servicing the following: driver hatch and lifting mechanism, driver periscopes, driver periscope washer, drain valves, ammunition compartment, and repair/replace driver vehicular seat and headrest.

2146-MAIN-2012: Maintain M1A1 bilge pump

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 08953A-20/2-1 Tank M1A1 (120MM GUN)
2. TM 08953A-20/2-2 Tank M1A1 (120MM GUN)
3. TM 08953A-20/2-3 Tank M1A1 (120MM GUN)
4. TM 08953A-20/2-4 Tank M1A1 (120MM GUN)
5. TM 08953A-20/2-5 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1. Steps include servicing the following: replacing centrifugal bilge pump unit and repair/replace bilge pump unit tube assembly, metallic bent tube, and rubber hoses.

2146-MAIN-2013: Maintain M1A1 mine clearing blade

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1, necessary tools and test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Perform semiannual preventive maintenance checks and services (PMCS).
3. Remove unserviceable parts or components.
4. Repair/Replace unserviceable parts or components.
5. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 2590-10/1 Mine Clear Blde F/MI IPM1 M1A1
2. TM 2590-23&P/2 Mine Clear Blde F/MI IPM1 M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2014: Maintain M88A2 hull and related components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-256-34 Recovery Vehicle, Full Tracked
3. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2015: Maintain M88A2 personal heater

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-256-34 Recovery Vehicle, Full Tracked
3. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2016: Maintain M88A2 auxiliary power unit

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-256-34 Recovery Vehicle, Full Tracked
3. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2017: Maintain M88A2 smoke grenade launchers

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-256-34 Recovery Vehicle, Full Tracked
3. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2018: Maintain M88A2 exhaust smoke generating system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M88A2, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-256-34 Recovery Vehicle, Full Tracked
3. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2019: Maintain AVLB track and suspension system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2020: Maintain AVLB steering system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2021: Maintain AVLB exterior components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an AVLB, necessary tools and test equipment, appropriate lifting devices, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2022: Maintain AVLB personnel heater

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an AVLB, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2023: Maintain AVLB smoke generator system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an AVLB, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).

2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include inspection, repair, and/or replacement of the following: smoke generator switch and guard, smoke generator switch indicator light and mounting bracket, smoke generator wiring harness, smoke generator fuel shut-off valve, smoke generator solenoid, smoke generator fuel hoses, lines, fittings, and smoke generator tee to turbo supercharger tube assembly.

2146-MAIN-2024: Maintain AVLB smoke grenade launcher

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an AVLB, necessary tools and test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance/administrative records and procedures.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
3. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
4. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-24P Bridge Armor Vehicle Launch
7. TM 5-5420-228-24 Launcher hydraulic system, M60A1 Tank chassis

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include inspection, repair, and/or replacement of the following: smoke grenade power box, smoke grenade push-button unit, smoke grenade wiring harness assemblies, smoke grenade launcher, smoke grenade storage box, and also performing a function check on the smoke grenade launcher.

2146-MAIN-2025: Apply deep water fording kit to M88A2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M88A2, and a deep water fording kit.

STANDARD: To adequately prepare for amphibious operations.

PERFORMANCE STEPS:
1. Conduct fording kit inventory.
2. Apply deep water fording kit to M88A2.
3. Operate vehicle as per instructions.
4. Remove deep water fording kit.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2026: Repair AGT turbine engine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1 AGT 1500, appropriate lifting device, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2835-255-34 Direct Support and General Support Maintenance Manual for Turbine Engine, Field Service, Model AGT1500 (M1/1PM1)
2. TM 9-2835-255-34P Turbine Eng FS M1/IMP1 & M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: replacing unserviceable #1 bearing, removing and inspecting intermediate housing assembly, replacing unserviceable #12 and #4 annular ball bearing, removing and inspecting reduction gear box, replacing unserviceable #10 ball bearing, removing and inspecting shaft assembly and adapter, replacing unserviceable #5 bearing, removing and inspecting accessory gear box cover assembly.

2146-MAIN-2027: Maintain M1A1 fuel system components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-24P/1-1 TANK M1A1 (120MM GUN)
2. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include: repairing unserviceable EMFS, fuel pump driveshaft, fuel pump, and rotary variable differential transformers (RVDTs).

2146-MAIN-2028: Maintain M1A1 cooling system components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1 power pack, appropriate lifting devices, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
2. TM 08953A-34P/8 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: repairing or replacing unserviceable oil cooling fan angle drive unit assembly and unserviceable oil cooler fans and tube axle.

2146-MAIN-2029: Maintain M1A1 hull electrical system components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given M1A1 components, assigned tools test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
2. TM 08953A-34P/8 TANK M1A1 (120MM GUN)

3. TM 9-2835-255-34 Direct Support and General Support Maintenance Manual for Turbine Engine, Field Service, Model AGT1500 (M1/1PM1)
4. TM 9-4931-586-12-2&P Test Set Elec AN/USM-615
5. TM 9-4931-586-12-4&P Test Set Elec AN/USM-615

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: repairing generator, driver's instrument panel, driver's master control panel, driver's alert panel, temperature controller, digital electronic control unit (DECU), hull power distribution box, hull network distribution box, DECU supplemental battery box, headlight assembly, wiring harness, and starter.

2146-MAIN-2030: Repair M1A1 final drive assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given M1A1 final drive assembly, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
2. TM 08953A-34P/8 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: repairing output shaft assembly and final drive assembly.

2146-MAIN-2031: Maintain M1A1 steering assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1 steering assembly, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
2. TM 08953A-34P/8 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: replacing unserviceable access cover, switches and connectors, housing, identification plate, and unserviceable electrical wires.

2146-MAIN-2032: Maintain M1A1 chassis accessories

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1, an appropriate lifting device, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-24P/1-1 TANK M1A1 (120MM GUN)
2. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
3. TM 08953A-34P/8 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include replacing or adjusting the following: unserviceable hull turret seal, race ring wiper seal, turret ring headless shoulder pin, bump stop bracket, ammunition doors, sound suppressors, and removing, repairing, and/or replacing the race ring assembly.

2146-MAIN-2033: Maintain M1A1 fire suppression equipment components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given M1A1 fire suppression components, appropriate lifting devices, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-24P/1-1 TANK M1A1 (120MM GUN)
2. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
3. TM 08953A-34P/8 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: replacing unserviceable fire extinguisher distribution tube assemblies and repairing unserviceable valve and bottle assembly.

2146-MAIN-2034: Maintain M1A1 turret electrical system components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given M1A1 turret electrical system components, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-24P/1-1 TANK M1A1 (120MM GUN)

2. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
3. TM 08953A-34P/8 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: repairing gunner's control assembly, commander's control assembly, gun/turret drive electronics unit, turret networks box assembly, loader's panel, tank commander's panel assembly, commander's weapon station control handle assembly, machine gun safety switch assembly, wiring harness, and commander's weapons station power control unit assembly.

2146-MAIN-2035: Maintain M1A1 turret hydraulic system components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-24P/1-1 TANK M1A1 (120MM GUN)
2. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
3. TM 08953A-34P/8 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: repairing traversing mechanism assembly, elevating mechanism assembly, hand pump and hydraulic handle assembly, traverse servomechanism assembly, and elevation servomechanism assembly.

2146-MAIN-2036: Maintain M1A1 turret assembly components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, appropriate lifting devices, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-24P/1-1 TANK M1A1 (120MM GUN)
2. TM 08953A-24P/2-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
3. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
4. TM 08953A-34P/8 TANK M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: repairing turret lock assembly, turret race assembly, commander's weapon station azimuth drive gear box, commander's weapon station elevation manual drive, and turret ammunition doors.

2146-MAIN-2037: Maintain M1A1 armament system components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given M1A1 armament system, appropriate lifting devices, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-24P/2-2 Tank, Combat, Full Tracked 120-MM Gun, M1A1
2. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
3. TM 08953A-34P/8 TANK M1A1 (120MM GUN)
4. TM 9-6650-235-13&P M3 Bore scope

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: replacing unserviceable 120mm gun mount, replacing and/or adjusting gun trunnion resolver, replacing gunner's auxiliary sight front seal, and replacing recoil mechanism and recoil mechanism wipers.

2146-MAIN-2038: Maintain M1A1 mine clearing blade components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an M1A1 mine clearing blade, appropriate lifting devices, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 2590-10/1 Mine Clear Blde F/MI IPM1 M1A1
2. TM 2590-23&P/2 Mine Clear Blde F/MI IPM1 M1A1

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: Replacing unserviceable motor housing, speed gear assembly, and motor assembly.

2146-MAIN-2039: Maintain X11003B transmission

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1, X11003B transmission, appropriate lifting devices, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the references.
4. Complete required maintenance and/or administrative forms and records,

REFERENCES:
1. TM 9-2520-276-34 Trans Assy Model X1100-3B
2. TM 9-2520-276-34P Trans Assemblies & Container

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: replacing unserviceable right brake apply shaft assembly, housing, and brake pad.

2146-MAIN-2040: Maintain external auxiliary power unit (EAPU)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M1A1 external auxiliary power unit, appropriate lifting devices, assigned tools, test equipment, assistant(s), and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Operate M1A1.
2. Troubleshoot malfunctions.
3. Take corrective/remedial action per the reference.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-6115-542-24&P External auxiliary power unit

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: replacing unserviceable engine, repairing fuel, electrical, and/or air intake systems.

2146-MAIN-2041: Troubleshoot M88A2

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, assigned tools, test equipment, and access to automated system with software.

STANDARD: To determine corrective maintenance requirements.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include inspection, and checking the following: fuel system, purge pump, electrical system, mechanical tachometer and speedometer, auxiliary power unit, bilge pump, personnel heater, and main hydraulic system.

2146-MAIN-2042: Maintain M88A2 systems

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, appropriate lifting devices, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium
2. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include repair and/or replacement of the following: power plant, fuel tanks, electric fuel pump, purge pump, personnel heater, electrical components, hydraulic components, auxiliary power unit, adjust and load test main winch, hoist winch, and live boom, hoisting boom assembly, main winch and spade assembly, hydraulic subplate assembly, mechanical transmission and main hydraulic pump assembly, hoist winch assembly, hydraulic oil tank assembly, spade subplate and combination control valve assembly, flow regulator subplate assembly, smoke grenade launcher, and adjust and load test main winch, hoist winch, and live boom.

2146-MAIN-2043: Maintain M88A2 turbosupercharger

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2350-256-10 Operator's Manual for Recovery Vehicle, Full Tracked, Medium

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: disassembling turbosupercharger, inspecting and repairing turbosupercharger, assembling turbosupercharger, and testing/adjusting turbosupercharger.

2146-MAIN-2044: Repair M88A2 engine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVDS-1790-8CR engine, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2815-220-34 Direct Support and General Support Maintenance Manual for Engine with Container: Turbocharged, Diesel, Fuel Injection, 90-Degree "V" Type, Air cooled, 12-Cylinder, Assembly

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: disassemble engine, inspect and repair engine, assemble engine, and test/adjust engine.

2146-MAIN-2045: Repair M88A2 transmission

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an XT-1410-5A transmission, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2520-215-34 Cross Drive Transmission Assembly

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include the following: disassemble transmission, inspect and repair transmission, assemble transmission, and test/adjust transmission.

2146-MAIN-2046: Repair M88A2 Output Reduction Unit (ORU)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an output reduction unit (ORU), assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Disassemble ORU.
2. Inspect/Repair ORU.
3. Assemble ORU.
4. Test/Adjust ORU.

REFERENCES:
1. TM 9-2520-215-34 Cross Drive Transmission Assembly

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2047: Maintain M88A2 fuel system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88A2, appropriate lifting devices, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-2350-256-34 Recovery Vehicle, Full Tracked

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Parts or components include: fuel injectors, time injector pump, and Viking pump.

2146-MAIN-2048: Maintain AVLB engine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, appropriate lifting devices, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2049: Maintain AVLB fuel system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, appropriate lifting devices, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-24P Bridge Armor Vehicle Launch
3. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Parts or components include: fuel injectors, timing injectors, and Viking pump.

2146-MAIN-2050: Maintain AVLB electrical system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given and AVLB, appropriate lifting devices, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Remove, repair, and/or replace unserviceable parts or components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-24P Bridge Armor Vehicle Launch
3. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Parts or components include: wiring harnesses, starter, and generator.

2146-MAIN-2051: Maintain AVLB transmission

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB power plant, appropriate lifting devices, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-24P Bridge Armor Vehicle Launch
3. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2052: Maintain AVLB brake system components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given AVLB brake system components, assigned tools, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-24P Bridge Armor Vehicle Launch
3. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Parts or components include: brake master cylinder and brake slave cylinder.

2146-MAIN-2053: Maintain AVLB suspension system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, suspension components, assigned tools, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-24P Bridge Armor Vehicle Launch
3. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Parts or components include: road wheel arm assembly, track support axle assembly, compensating idler arm assembly, and track adjusting link.

2146-MAIN-2054: Maintain AVLB fire suppression system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
2. TM 5-5420-202-24P Bridge Armor Vehicle Launch
3. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Parts include: fixed fire extinguishing cylinder.

2146-MAIN-2055: Maintain AVLB launcher

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB, appropriate lifting devices, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative records and forms.

REFERENCES:
1. TM 5-5420-202-24P Bridge Armor Vehicle Launch
2. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002. Steps include: inspection, repair, and/or replacement of the following: reservoir blower assembly, reservoir quadrant blower motor, accessories control box, tongue assembly, boom-outrigger, maintaining pump-clutch and valve bank, hydraulic cylinders, and reservoir.

2146-MAIN-2056: Maintain AVLB final drive

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AVLB final drive, appropriate lifting devices, assigned tools, test equipment, and access to automated system with software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Troubleshoot/Isolate discrepancies/unserviceable parts or components.
3. Remove, repair, and/or replace unserviceable parts or components.
4. Complete maintenance and/or administrative records and forms.

REFERENCES:
1. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
2. TM 5-5420-202-24P Bridge Armor Vehicle Launch
3. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

2146-MAIN-2057: Maintain intermediate tools and test equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given applicable tools and test equipment, cleaning materials, and access to automated system with software.

STANDARD: To ensure accountability and serviceability.

PERFORMANCE STEPS:
1. Maintain tools.
2. Maintain special tools.
3. Maintain test equipment.
4. Maintain M1A1 tools.
5. Maintain M88A2 tools.
6. Maintain AVLB tools.
7. Inventory kits, sets, chests, and equipment as required and complete applicable forms and records.
8. Requisition required items and reconcile as required with supporting supply source.
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. MCO 4400.15 Intermediate Level Supervisor Mgt Policy
2. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
3. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 12002.

GROUND ORD MAINT T&R MANUAL

CHAPTER 13

MOS 2147 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	13000	13-2
EVENT CODING	13001	13-2
ADMINISTRATIVE NOTES	13002	13-2
INDEX OF INDIVIDUAL EVENTS	13003	13-3
1000-LEVEL EVENTS	13004	13-5
2000-LEVEL EVENTS	13005	13-19

CHAPTER 13

MOS 2147 INDIVIDUAL EVENTS

13000. PURPOSE. This chapter contains individual training events for the Light Armored Vehicle Repairer/Technician.

13001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2147). The second four digits represent the functional or duty area: Administrative Functions (ADMN), and Maintenance Functions (MAIN). The last four digits represent the level, and identifier number of the event. This chapter contains both 1000 and 2000 level events. Each individual event has an identifier number from 001 to 999.

13002. ADMINISTRATIVE NOTES

1. Maintenance and/or repairs are limited to authorized echelon of maintenance.

2. Material Safety Data Sheet (MSDS) must be on hand for all POLs, paint, and other hazardous materials used in preventive/corrective maintenance.

13003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	1000-LEVEL	
2147-MAIN-1001	Perform LAV operator maintenance	13-5
2147-MAIN-1002	Operate LAV/FOV	13-6
2147-MAIN-1003	Operate LAV-recovery	13-6
2147-MAIN-1004	Maintain LAV tools and test equipment	13-7
2147-MAIN-1005	Maintain LAV suspension system	13-8
2147-MAIN-1006	Maintain LAV engine	13-9
2147-MAIN-1007	Maintain LAV Transmission	13-9
2147-MAIN-1008	Maintain LAV power pack	13-10
2147-MAIN-1009	Maintain LAV steering system	13-11
2147-MAIN-1010	Maintain LAV Cooling System	13-11
2147-MAIN-1011	Maintain LAV fuel system	13-12
2147-MAIN-1012	Maintain LAV hull electrical system	13-13
2147-MAIN-1013	Maintain LAV pneumatic system	13-13
2147-MAIN-1014	Maintain LAV hull hydraulic system	13-14
2147-MAIN-1015	Maintain LAV brake system	13-15
2147-MAIN-1016	Maintain LAV drive train	13-16
2147-MAIN-1017	Inspect LAV/FOV	13-16
2147-MAIN-1018	Perform LAV PMCS	13-17
	2000-LEVEL	
2147-ADMN-2001	Manage maintenance functional areas	13-19
2147-ADMN-2002	Administer maintenance management programs	13-19
2147-ADMN-2003	Perform operator training	13-20
2147-ADMN-2004	Perform MIMMS/ATLASS II++ systems administration	13-21
2147-ADMN-2005	Manage Military Occupational Specialty (MOS) training program	13-21
2147-MAIN-2006	Operate LAV-Command and Control (C2)	13-22
2147-MAIN-2007	Operate LAV-Mobile Electronic Warfare Support System (MEWSS)	13-23
2147-MAIN-2008	Operate LAV-Logistics (L)	13-23
2147-MAIN-2009	Maintain LAV fire suppression system	13-24
2147-MAIN-2010	Maintain LAV hull (all variants)	13-25
2147-MAIN-2011	Maintain LAV suspension system	13-26
2147-MAIN-2012	Maintain LAV engine	13-26
2147-MAIN-2013	Maintain LAV-transmission	13-27
2147-MAIN-2014	Maintain LAV power pack	13-28
2147-MAIN-2015	Maintain LAV steering system	13-28
2147-MAIN-2016	Maintain LAV hull electrical system	13-29
2147-MAIN-2017	Maintain LAV hull pneumatic system	13-30
2147-MAIN-2018	Maintain LAV hull hydraulic system	13-30
2147-MAIN-2019	Maintain LAV break system	13-31
2147-MAIN-2020	Maintain LAV drive train	13-32
2147-MAIN-2021	Maintain LAV-Recovery	13-32
2147-MAIN-2022	Maintain LAV-recovery electrical system	13-33
2147-MAIN-2023	Maintain LAV-recovery hydraulic system	13-34

2147-MAIN-2024	Maintain LAV-AT recovery	13-34
2147-MAIN-2025	Maintain LAV-AT recovery hydraulic system	13-35
2147-MAIN-2026	Maintain LAV-AT turret controls and indicators	13-36
2147-MAIN-2027	Maintain LAV-AT turret assembly	13-36
2147-MAIN-2028	Maintain LAV-AT turret fire control hydraulics	13-37
2147-MAIN-2029	Maintain LAV-AT turret fire control electronics	13-38
2147-MAIN-2030	Maintain LAV-AT turret sights, optics, and viewing devices	13-38
2147-MAIN-2031	Convert LAV-AT turret stow and low stow	13-39
2147-MAIN-2032	Maintain LAV-25 turret assembly	13-40
2147-MAIN-2033	Maintain LAV-25 turret fire control hydraulics	13-40
2147-MAIN-2034	Maintain LAV-25 turret fire control electronics	13-41
2147-MAIN-2035	Maintain M242 25MM automatic chain gun	13-42

13004. 1000-LEVEL INDIVIDUAL EVENTS

2147-MAIN-1001: Perform LAV operator maintenance

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

DESCRIPTION: Perform LAV operator maintenance.

MOS PERFORMING:

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV, required tools, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

REFERENCES:
1. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
2. LI 08650B -12A Lubrication Instruction, LAV-Command & Control
3. LI 08651B-12A Lubrication Instruction, LAV-Recovery
4. LI 08652B-12/1C Lubrication Instruction, LAV-Anti-Tank Auto/Hull
5. LI 08654B-12 Lubrication Instruction, LAV-Logistics
6. LI 08655A-12A Lubrication Instruction, LAV-Mortar
7. LI 09999B-12 Lubrication Instruction, LAV-MEWSS
8. TI 2320-15/55B Deadline Criteria
9. TM 08594B-10/2B Operator's Manual LAV-25 Hull
10. TM 08651B-10A Operator's Manual, LAV Recovery
11. TM 08652B-10/2A LAV-AT
12. TM 08653B-10/1 Operator's Manual, LAV-Air Defense
13. TM 08654B-10A LAV-L
14. TM 08655B-10A Operator's Manual LAV-M
15. TM 09999A-10/2 Operator's Manual, LAV MEWSS
16. TM 4700-15/1 Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Steps include inspection, removal, repair, and/or replacement, of the following: communications equipment, driver's and commander's night vision periscopes, fluid levels, lubrication points, wheel drive assembly, service reservoirs, brake system, weather protection grill cover, driver's windshield, driver's cover, tie down strap, smoke grenade launcher, LAV tires, collateral equipment, NBC system, maintenance equipment, and performing corrosion control.

2147-MAIN-1002: Operate LAV/FOV

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

DESCRIPTION: Operate LAV-25

MOS PERFORMING:

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV-25, required tools, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform before operations checks.
2. Operate LAV-25 turret and 25MM automatic chain gun.
3. Perform operator level troubleshooting.
4. Operate vehicle per instructions.
5. Perform during operations checks.
6. Perform after operations checks.
7. Operate associated SL-3 equipment.
8. Operate LAV-AT turret.

REFERENCES:
1. LI 08594B-12/1B Lubrication Instruction, LAV-25 Turret
2. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
3. SL-3-08594A Stock List, LAV-25
4. TM 08594A-10-1C Operator's Manual,LAV-25 Turret
5. TM 08594B-10/2B Operator's Manual LAV-25 Hull
6. TM 4700-15/1 Equipment Record Procedures
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Steps include inspecting: air intake and exhaust system, braking system, commander's night vision periscope, communications system, compressed air system, crew heater assembly, driver's night periscope, electrical system, bilge pump, engine, suspension assemblies, and recovery equipment. Vehicle not operated off-road or in simulated combat situations during formal school training.

2147-MAIN-1003: Operate LAV-recovery

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV, required tools, assistance and supervision, access to automated system and applicable software.

STANDARD: To determine corrective maintenance requirements to restore end item or component to operational readiness.

PERFORMANCE STEPS:
1. Perform before operations checks.
2. Perform operator level troubleshooting.
3. Perform limited technical inspection. (LTI)
4. Operate LAV-R.
5. Ensure not to exceed crane capacity.
6. Identify all auxiliary equipment components and their location.
7. Perform during operations.
8. Perform after operations checks.
9. Perform first echelon preventive maintenance checks and services.
10. Conduct and properly record an SL-3 Inventory.
11. Make appropriate entries in ordnance vehicle logbook.
12. Perform daily crane inspection.
13. Demonstrate the proper configuration for towing a disabled vehicle.

REFERENCES:
1. LI 08651B-12A Lubrication Instruction, LAV-Recovery
2. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. TM 08651B-10A Operator's Manual, LAV Recovery
4. TM 4700-15/1 Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission Essential Task Lists (METL) and equipment on hand.

2147-MAIN-1004: Maintain LAV tools and test equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given applicable tools and test equipment, access to automated system and applicable software.

STANDARD: To ensure safety and availability to support mission requirements.

PERFORMANCE STEPS:
1. Maintain all common, fabricated, TMDE, and special tools.

2. Inventory all common, fabricated, TMDE, and special tools.
3. Take appropriate action for all unserviceable and missing tools.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. SL-3 08594A LAV-25
3. SL-3 08721A Tool Kit, Armor LAV-25
4. SL-3 08723A Tool Set,F/242 25mm Cannon
5. SL-3 08895A Tool Kit, Intermediate Maintenance, LAV
6. TM 4700-15/1 Equipment Record Procedures
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential task Lists (METL) and equipment on hand. Formal school training includes: introduction to and inventory of General Mechanics Tool Box, familiarization with special tools, and test equipment used in the course of instruction.

2147-MAIN-1005: Maintain LAV suspension system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system, and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts and components.
3. Repair/Replace unserviceable parts and components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV Variants, systems, and components as required to support Mission-Essential

Task Lists (METL and equipment on hand. Items covered include but are not limited to the following: characteristics, removal and installation of shocks, struts, and control arm assemblies.

2147-MAIN-1006: Maintain LAV engine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system, and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Make adjustments to specifications.
4. Make adjustments to specifications.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
2. TM 4700-15/1 Equipment Record Procedures
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. TM 8A192C-34/PA

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission Essential Task Lists (METL) and equipment on hand.

2147-MAIN-1007: Maintain LAV Transmission

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system, and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Adjust modulator within specifications.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: characteristics and identification of components of the LAV transmission.

2147-MAIN-1008: Maintain LAV power pack

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system, and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform power pack separation.
2. Identify discrepancies/unserviceable parts or components.
3. Remove unserviceable parts or components.
4. Repair/Replace unserviceable parts or components.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-1009: Maintain LAV steering system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system, and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Adjust components with specifications.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV Variants, systems, and components as required to support Mission-Essential Task Lists (METL and equipment on hand. Items covered include but are not limited to the following: characteristics, removal and installation of shocks, struts, and control arm assemblies.

2147-MAIN-1010: Maintain LAV Cooling System

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system, and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.

3. Repair/Replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV Variants, systems, and components as required to support Mission-Essential Task Lists (METL and equipment on hand. Items covered include but are not limited to the following: characteristics, removal and installation of shocks, struts, and control arm assemblies.

2147-MAIN-1011: Maintain LAV fuel system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts and components.
3. Repair/Replace unserviceable components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
2. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV Variants, systems, and components as required to support Mission-Essential Task Lists (METL and equipment on hand. Items covered include but are not limited to the following: characteristics, removal and installation of shocks, struts, and control arm assemblies.

2147-MAIN-1012: Maintain LAV hull electrical system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify/diagnose/troubleshoot unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable Parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594-20/3B Light Armored Vehicle (LAV)
3. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
4. TM 08650A-20B Organization Maintenance, LAV-C-2
5. TM 08651A-20B Organizational Maintenance, LAV-Recovery
6. TM 08652A-20/3B Organizational Maintenance, LAV-Anti-Tank Turret
7. TM 08652A-20/4A Organizational Maintenance, LAV Anti-Tank Auto/Hull
8. TM 08653A-20 Organizational Maintenance, LAV-Air Defense
9. TM 08654A-20B Organizational Maintenance, LAV-Logistics
10. TM 08655A-20B Organizational Maintenance, LAV-Mortar
11. TM 0999914/1 Organizational Maintenance, LAV-MEWSS
12. TM 4700-15/1 Equipment Record Procedures
13. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV Variants, systems, and components as required to support Mission-Essential Task Lists (METL and equipment on hand.

2147-MAIN-1013: Maintain LAV pneumatic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-3-08594A Stock List, LAV-25
2. TM 08594-20/3B Light Armored Vehicle (LAV)
3. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
4. TM 08650A-20B Organization Maintenance, LAV-C-2
5. TM 08651A-20B Organizational Maintenance, LAV-Recovery
6. TM 08653A-20 Organizational Maintenance, LAV-Air Defense
7. TM 0999914/1 Organizational Maintenance, LAV-MEWSS
8. TM 4700-15/1 Equipment Record Procedures
9. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV Variants, systems, and components as required to support Mission-Essential Task Lists (METL and equipment on hand. Items covered include but are not limited to the following: characteristics, removal and installation of shocks, struts, and control arm assemblies.

2147-MAIN-1014: Maintain LAV hull hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594-20/3B Light Armored Vehicle (LAV)
3. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
4. TM 08650A-20B Organization Maintenance, LAV-C-2

5. TM 08651A-20B Organizational Maintenance, LAV-Recovery
6. TM 08652A-20/3B Organizational Maintenance, LAV-Anti-Tank Turret
7. TM 08653A-20 Organizational Maintenance, LAV-Air Defense
8. TM 0999914/1 Organizational Maintenance, LAV-MEWSS
9. TM 4700-15/1 Equipment Record Procedures
10. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV Variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: characteristics, removal and installation of shocks, struts, and control arm assemblies.

2147-MAIN-1015: Maintain LAV brake system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts and components.
3. Repair/replace unserviceable parts or components.
4. Adjust to specifications.
5. Bleed brake system.
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
2. SL-4 08594A Stock List, Repair Parts, LAV-25
3. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV Variants, systems, and components as required to support Mission-Essential Task Lists (METL and equipment on hand. Items covered include but are not limited to the following: characteristics, removal and installation of shocks, struts, and control arm assemblies.

2147-MAIN-1016: Maintain LAV drive train

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components to include marine drive system.
2. Remove/repair/replace unserviceable parts and components to include transfer case and third differential.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
2. SL-3-08594A Stock List, LAV-25
3. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV Variants, systems, and components as required to support Mission-Essential Task Lists (METL and equipment on hand. Items covered include but are not limited to the following: characteristics, removal and installation of shocks, struts, and control arm assemblies.

2147-MAIN-1017: Inspect LAV/FOV

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

DESCRIPTION: Operate LAV-anti-tank (AT)

GRADES: PVT, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV/FOV, required tools, assistance and supervision, access to automated system and applicable software.

STANDARD: To determine corrective maintenance requirements to restore end item or component to operational readiness.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Complete maintenance/administrative forms and records.

REFERENCES:
1. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
2. LI 08652B-12/1B Lubrication Instruction, LAV-Anti-Tank Turret
3. LI 08652B-12/1C Lubrication Instruction, LAV-Anti-Tank Auto/Hull
4. TM 08594B-10/2B Operator's Manual LAV-25 Hull
5. TM 08652A-10/1A Operator's Manual LAV-AT Turret
6. TM 4700-15/1 Equipment Record Procedures
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Steps include inspection, removal, repair and/or replacement of the following: enunciator panel, compressed air and brake system, NBC system, power pack assembly, steering system, hydraulic system, electrical system, suspension system, drive train system, fuel system, cooling system, communications system, air intake system/exhaust system, fire suppression system, personal heater, and pneumatic system.

2147-MAIN-1018: Perform LAV PMCS

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, assistance and supervision, access to automated system and applicable software.

STANDARD: To minimize corrective maintenance, in accordance with the procedures and specifications.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Perform all required PMCS.
3. Perform all corrosion control.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12/1B Lubrication Instruction, LAV-25 Turret
2. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
3. LI 08651B-12A Lubrication Instruction, LAV-Recovery
4. LI 08652B-12/1B Lubrication Instruction, LAV-Anti-Tank Turret
5. LI 08652B-12/1C Lubrication Instruction, LAV-Anti-Tank Auto/Hull
6. LI 08654B-12 Lubrication Instruction, LAV-Logistics

7. LI 08655A-12A Lubrication Instruction, LAV-Mortar
8. LI 09999B-12 Lubrication Instruction, LAV-MEWSS
9. SL-4 08594A Stock List, Repair Parts, LAV-25
10. SL-4 08650A Stock List, Repair Parts, LAV-C2
11. SL-4 08651A Stock List, Repair Parts, LAV-Recovery
12. SL-4 08652A Stock List, Repair Parts, LAV-Anti-Tank
13. SL-4 08653A Stock List, Repair Parts, LAV-Air Defense
14. SL-4 08654A Stock List, Repair Parts, LAV-Logistics
15. SL-4 08655A Stock List, Repair Parts, LAV-Mortar
16. SL-4 09999A Stock List, Repair Parts, LAV-MEWSS
17. TM 08594-20/3B Light Armored Vehicle (LAV)
18. TM 08650A-20B Organization Maintenance, LAV-C-2
19. TM 08651A-20B Organizational Maintenance, LAV-Recovery
20. TM 08652A-20/3B Organizational Maintenance, LAV-Anti-Tank Turret
21. TM 08652A-34/5A Intermediate Maintenance, LAV Anti Tank Turret
22. TM 08653A-20/2 Organizational Maintenance, LAV Air Defense Auto/Hull
23. TM 08654A-20B Organizational Maintenance, LAV-Logistics
24. TM 08655A-20B Organizational Maintenance, LAV-Mortar
25. TM 08672A-20/1 Maintenance Manual, 25mm Auto Chain Gun
26. TM 0999914/1 Organizational Maintenance, LAV-MEWSS

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METLs) and equipment on hand.

13005. 2000-LEVEL INDIVIDUAL EVENTS

2147-ADMN-2001: Manage maintenance functional areas

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given ground equipment maintenance publications and forms in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance.

PERFORMANCE STEPS:
1. Ensure shop areas are designated, organized, and maintained.
2. Manage support and test equipment use, inventory, and maintenance.
3. Ensure maintenance of the technical publications library.
4. Coordinate supply support requirements.
5. Maintain preventive/corrective maintenance schedules.
6. Coordinate maintenance cycles and priority designators to ensure optimum equipment availability.
7. Ensure shop safety procedures are established and followed.
8. Ensure appropriate disposal of hazardous waste.
9. Conduct routine and unscheduled internal inspections.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
3. MCO 4855.10 Product Quality Deficiency Report (PQDR)
4. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
5. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
6. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
7. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
8. MCO P4790.2 MIMMS Field Procedures Manual
9. TM 4700-15/1 Equipment Record Procedures
10. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
11. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

2147-ADMN-2002: Administer maintenance management programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given ground equipment maintenance publications and forms in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure common shop operations are conducted to meet mission requirements through all echelons of maintenance.

PERFORMANCE STEPS:
1. Review requirements outlined in the references.
2. Review existing maintenance management procedures for compliance.
3. Ensure compliance with maintenance management programs as applicable: Modification Control Program, Warranty Program, Joint Oil Analysis Program, Inspect Only as Necessary Program, WIR Program, Quality Control Program, Administrative Dead Line Program, Contact Team Program, Maintenance Stand-Down Program, Corrosion Prevention and Control Program, Hazardous Communication Program, Tool Control and Calibration Programs, Embarkation Programs.
4. Ensure actions are completed to correct any deficiencies.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. TM 4700-15/1 Equipment Record Procedures
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Note #1, par 13002.

2147-ADMN-2003: Perform operator training

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given the requirement and subordinate personnel.

STANDARD: To ensure personnel are properly and adequately trained to support mission requirements.

PERFORMANCE STEPS:
1. Provide instruction and guidance on the completion of equipment.
2. Provide instruction and guidance on performance of operator maintenance.
3. Provide instruction and guidance on maintenance safety program.
4. Maintain records of all training conducted.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE)

Calibration and Maintenance Program (CAMP)
2. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
5. MCO P4790.2 MIMMS Field Procedures Manual
6. TM 4700-15/1 Equipment Record Procedures
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
8. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes #, par 13002.

2147-ADMN-2004: Perform MIMMS/ATLASS II++ systems administration

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the requirement and access to automated system with applicable software.

STANDARD: To adequately support mission requirements.

PERFORMANCE STEPS:
1. Perform mailbox maintenance.
2. Identify preventive maintenance requirements.
3. Develop preventive maintenance requirements.
4. Update job status.
5. Update man-hours.
6. Update priority.
7. Update meters.
8. Identify and validate modification requirements.
9. Develop calibration schedule.
10. Develop pre-expend bin (PEB)/parts package.
11. Create adhoc report.
12. Analyze adhoc.
13. Perform evacuation procedures.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual

2147-ADMN-2005: Manage Military Occupational Specialty (MOS) training program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given subordinate ordnance maintenance personnel, an annual training plan, necessary equipment and supplies.

STANDARD: To provide appropriate training sustainment and progression for subordinates.

PERFORMANCE STEPS:
1. Review the annual training plan for training requirements.
2. Identify individual training requirements.
3. Develop a training schedule.
4. Apply training program policies and procedures.
5. Schedule support requirements.
6. Conduct ordnance maintenance training appropriate to unit size and mission.
7. Participate in unit training evaluations and inspections.
8. Maintain records of all training conducted.

REFERENCES:
1. MCO 1553.3A Marine Corps Unit Training Management
2. MCRP 3-0A Unit Training Management Guide
3. MCRP 3-0B How to Conduct Training

2147-MAIN-2006: Operate LAV-Command and Control (C2)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV-C2, required tools, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform before operation checks.
2. Perform operator level troubleshooting.
3. Operate LAV-C2.
4. Perform during operation checks.
5. Perform after operations checks.
6. Make appropriate entries in ordnance vehicle logbook.
7. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08650B -12A Lubrications Instruction, LAV-Command & Control
2. TM 08650A-20B Organization Maintenance, LAV-C-2
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: MOS Formal Training, MOJT, and sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2007: Operate LAV-Mobile Electronic Warfare Support System (MEWSS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV-MEWSS, required tools, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform before operations checks.
2. Perform operator level troubleshooting.
3. Operate LAV-MEWSS.
4. Perform during operations checks.
5. Perform after operations checks.
6. Make appropriate entries in ordnance vehicle logbook.
7. Complete maintenance and/or administrative records and forms.

REFERENCES:
1. LI 09999B-12 Lubrication Instruction, LAV-MEWSS
2. TM 09999A-10/2 Operator's Manual, LAV MEWSS
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Checks and troubleshooting include removal, and replacement of the following: turntable, roof hatch, and ammunition rack.

2147-MAIN-2008: Operate LAV-Logistics (L)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV-C2, required tools, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Perform before operation checks.
2. Perform operator level troubleshooting.
3. Operate LAV-L.
4. Perform during operations checks.
5. Perform after operations checks.
6. Perform first echelon preventive maintenance checks and services.
7. Operate associated SL-3 equipment.
8. Properly record inventories.
9. Make appropriate entries in ordnance vehicle logbook.
10. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08654B-12 Lubrication Instruction, LAV-Logistics
2. SL-3-08594A Stock List, LAV-25
3. TM 08655B-10A Operator's Manual LAV-M
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: MOS Formal Training, MOJT, and sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2009: Maintain LAV fire suppression system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Check for compliance of hydrostatic test date on storage tank.
3. Perform visual inspection on tanks to ensure continued usage.
4. Remove unserviceable parts or components.
5. Repair/replace unserviceable parts or components.
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull

3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: characteristics, identification of components, and inspection of the fire suppression system.

2147-MAIN-2010: Maintain LAV hull (all variants)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
2. LI 08651B-12A Lubrication Instruction, LAV-Recovery
3. LI 08652B-12/1C Lubrication Instruction, LAV-Anti-Tank Auto/Hull
4. LI 08654B-12 Lubrication Instruction, LAV-Logistics
5. LI 08655A-12A Lubrication Instruction, LAV-Mortar
6. LI 09999B-12 Lubrication Instruction, LAV-MEWSS
7. SL-4 08594A Stock List, Repair Parts, LAV-25
8. SL-4 08650A Stock List, Repair Parts, LAV-C2
9. SL-4 08651A Stock List, Repair Parts, LAV-Recovery
10. SL-4 08652A Stock List, Repair Parts, LAV-Anti-Tank
11. SL-4 08653A Stock List, Repair Parts, LAV-Air Defense
12. SL-4 08654A Stock List, Repair Parts, LAV-Logistics
13. SL-4 08655A Stock List, Repair Parts, LAV-Mortar
14. SL-4 09999A Stock List, Repair Parts, LAV-MEWSS
15. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
16. TM 08594A-34/8 Light Armored Vehicle (LAV)
17. TM 08650A-20B Organization Maintenance, LAV-C-2
18. TM 08651A-20B Organizational Maintenance, LAV-Recovery
19. TM 08652A-20/4A Organizational Maintenance, LAV Anti-Tank Auto/Hull
20. TM 08652A-34/5A Intermediate Maintenance, LAV Anti Tank Turret

21. TM 08653A-20 Organizational Maintenance, LAV-Air Defense
22. TM 08654A-20B Organizational Maintenance, LAV-Logistics

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2011: Maintain LAV suspension system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-34/8 Light Armored Vehicle (LAV)
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: repair of planetary gear and control arm.

2147-MAIN-2012: Maintain LAV engine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts and components.
3. Repair/replace unserviceable parts and components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
2. TM 4700-15/1 Equipment Record Procedures
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
4. TM 8A192C-34/PA

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: repair of blower seals, turbocharger seals, and tune-up, separation of engine form transmission, and cylinder head and replacement.

2147-MAIN-2013: Maintain LAV-transmission

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts or components.
2. Remove unserviceable parts or components.
3. Repair/replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
2. TM 4700-15/1 Equipment Record Procedures
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: separation of transmission from engine.

2147-MAIN-2014: Maintain LAV power pack

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
3. TM 08594A-34/8 Light Armored Vehicle (LAV)
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
6. TM 8A192C-34/PA

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: removal and separation of engine and transmission.

2147-MAIN-2015: Maintain LAV steering system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-34/8 Light Armored Vehicle (LAV)
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2016: Maintain LAV hull electrical system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. SL-4 08650A Stock List, Repair Parts, LAV-C2
3. SL-4 08651A Stock List, Repair Parts, LAV-Recovery
4. SL-4 08652A Stock List, Repair Parts, LAV-Anti-Tank
5. SL-4 08653A Stock List, Repair Parts, LAV-Air Defense

6. SL-4 08654A Stock List, Repair Parts, LAV-Logistics
7. SL-4 08655A Stock List, Repair Parts, LAV-Mortar
8. SL-4 09999A Stock List, Repair Parts, LAV-MEWSS
9. TM 08594A-34/8 Light Armored Vehicle (LAV)
10. TM 08652B-34/5 Light Armored Vehicle (LAV)
11. TM 4700-15/1 Equipment Record Procedures
12. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2017: Maintain LAV hull pneumatic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-34/8 Light Armored Vehicle (LAV)
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, para13020.

2147-MAIN-2018: Maintain LAV hull hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: Ensure operational readiness per the references.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. FM 11-60 Communications-Electronics Fundamentals: Basic Principles, Direct Current
2. SL-4 08594A Stock List, Repair Parts, LAV-25
3. TM 08594A-34/8 Light Armored Vehicle (LAV)
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2019: Maintain LAV break system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12/2A Lubrication Instructions, Auto-Hull LAV-25
2. SL-4 08594A Stock List, Repair Parts, LAV-25
3. TM 08594A-34/8 Light Armored Vehicle (LAV)
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2020: Maintain LAV drive train

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12-2A LAV-25
2. SL-4 08594A Stock List, Repair Parts, LAV-25
3. TM 08594A-34/8 Light Armored Vehicle (LAV)
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: replace differential, transfer case, marine drive, and propeller drive seals.

2147-MAIN-2021: Maintain LAV-Recovery

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08651A Stock List, Repair Parts, LAV-Recovery
2. TM 08594A-34/8 Light Armored Vehicle (LAV)
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training Should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2022: Maintain LAV-recovery electrical system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08651A Stock List, Repair Parts, LAV-Recovery
2. TM 08594A-34/8 Light Armored Vehicle (LAV)
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV

variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: reading schematics.

2147-MAIN-2023: Maintain LAV-recovery hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08651B-12A Lubrication Instruction, LAV-Recovery
2. SL-4 08651A Stock List, Repair Parts, LAV-Recovery
3. TM 08594A-34/8 Light Armored Vehicle (LAV)
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: winch adjustment, troubleshooting, remove and install crane, and reading schematics.

2147-MAIN-2024: Maintain LAV-AT recovery

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts or components

3. Repair/replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. SL-4 08651A Stock List, Repair Parts, LAV-Recovery
3. TM 08651A-20B Organizational Maintenance, LAV-Recovery
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2025: Maintain LAV-AT recovery hydraulic system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Identify unserviceable parts and components.
2. Remove unserviceable parts and components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08651B-12A Lubrication Instruction, LAV-Recovery
2. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. SL-4 08594A Stock List, Repair Parts, LAV-25
4. SL-4 08651A Stock List, Repair Parts, LAV-Recovery
5. TM 08651A-20B Organizational Maintenance, LAV-Recovery
6. TM 08651B-10A Operator's Manual, LAV Recovery
7. TM 4700-15/1 Equipment Record Procedures
8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: characteristics, identification of components, path of flow, and removal and installation of components within authorized echelon of maintenance.

2147-MAIN-2026: Maintain LAV-AT turret controls and indicators

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV-AT turret in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To a fully operational level and within the authorized echelon of maintenance.

PERFORMANCE STEPS:
1. Perform limited technical inspection (LTI).
2. Identify unserviceable parts or components.
3. Repair/Replace unserviceable parts or components.
4. Complete maintenance and/or administrative forms and records.
5. Remove unserviceable parts or components.

REFERENCES:
1. TM 08652A-20/3B Organizational Maintenance, LAV-Anti-Tank Turret

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Steps include inspection, removal, and replacement of the following: turret controls and indicators.

2147-MAIN-2027: Maintain LAV-AT turret assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08652A Stock List, Repair Parts, LAV-Anti-Tank
2. TM 08652A-34/5A Intermediate Maintenance, LAV Anti Tank Turret
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2028: Maintain LAV-AT turret fire control hydraulics

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Perform turret bleed down procedures when working on pressurized hydraulic system.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08652B-12/1B Lubrication Instruction, LAV-Anti-Tank Turret
2. SL-4 08652A Stock List, Repair Parts, LAV-Anti-Tank
3. TM 08652A-20/3B Organizational Maintenance, LAV-Anti-Tank Turret
4. TM 08652A-34/5A Intermediate Maintenance, LAV Anti Tank Turret
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: repair of hydraulic power supply, azimuth drive, and accumulator assemblies.

2147-MAIN-2029: Maintain LAV-AT turret fire control electronics

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08652B-12/1B Lubrication Instruction, LAV-Anti-Tank Turret
2. SL-4 08652A Stock List, Repair Parts, LAV-Anti-Tank
3. TM 08652A-20/3B Organizational Maintenance, LAV-Anti-Tank Turret
4. TM 08652A-34/5A Intermediate Maintenance, LAV Anti Tank Turret
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: RAD adjustment, repair of gunner’s control panel, and micro switch replacement and adjustment.

2147-MAIN-2030: Maintain LAV-AT turret sights, optics, and viewing devices

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08652A Stock List, Repair Parts, LAV-Anti-Tank
2. TM 08652A-34/5A Intermediate Maintenance, LAV Anti Tank Turret
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: ITA removal and installation.

2147-MAIN-2031: Convert LAV-AT turret stow and low stow

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV-AT turret in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system with applicable software, and the references.

STANDARD: Per the references.

PERFORMANCE STEPS:
1. Convert stow to load stow
2. Convert load to stow.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 08652A-20/3B Organizational Maintenance, LAV-Anti-Tank Turret
2. TM 4700-15/1 Equipment Record Procedures
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002.

2147-MAIN-2032: Maintain LAV-25 turret assembly

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08652B-12/1B Lubrication Instruction, LAV-Anti-Tank Turret
2. SL-4 08594A Stock List, Repair Parts, LAV-25
3. TM 08594A-34/8 Light Armored Vehicle (LAV)
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

2147-MAIN-2033: Maintain LAV-25 turret fire control hydraulics

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Make adjustments to specifications.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. LI 08594B-12/1B Lubrication Instruction, LAV-25 Turret
2. SL-3-08594A Stock List, LAV-25
3. TM 08594A-34/8 Light Armored Vehicle (LAV)
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: repair of hydraulic power supply, manual elevation hand crank, elevation actuator, and traverse drive assembly.

2147-MAIN-2034: Maintain LAV-25 turret fire control electronics

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4 08594A Stock List, Repair Parts, LAV-25
2. TM 08594A-34/8 Light Armored Vehicle (LAV)
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential

Task Lists (METL) and equipment on hand. Items covered include but are not limited to the following: repair the PDA, CDA, and hand control assemblies.

2147-MAIN-2035: Maintain M242 25MM automatic chain gun

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M242 25mm automatic chain gun in a garrison or field environment, required tools, applicable equipment, assistance and supervision, access to automated system and applicable software.

STANDARD: To ensure operational readiness.

PERFORMANCE STEPS:
1. Troubleshoot to identify unserviceable parts and components.
2. Identify, remove, repair, and replace unserviceable parts/components.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 08594A-10-1C Operator's Manual, LAV-25 Turret
2. TM 4700-15/1 Equipment Record Procedures
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 13002. MOS Formal Training, MOJT, and Sustainment Training should encompass all LAV variants, systems, and components as required to support Mission-Essential Task Lists (METL) and equipment on hand.

GROUND ORD MAINT T&R MANUAL

CHAPTER 14

MOS 2149 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	14000	14-2
EVENT CODING	14001	14-2
INDEX OF INDIVIDUAL EVENTS	14002	14-3
2000-LEVEL EVENTS	14003	14-4

CHAPTER 14

MOS 2149 INDIVIDUAL EVENTS

14000. PURPOSE. This chapter contains individual training events for the Ordnance Vehicle Maintenance Chief.

14001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2149). The second four digits represent the functional or duty area: Administrative Functions (ADMN), and Technical Functions (TECH). The last four digits represent the level, and identifier number of the event. This chapter contains 2000 level events only. Each individual event has an identifier number from 001 to 999.

14002. INDEX OF INDIVIDUAL EVENTS

	Event	Page
	2000-LEVEL	
2149-ADMN-2001	Establish maintenance management programs	14-4
2149-ADMN-2002	Supervise ground ordnance maintenance resources	14-4
2149-ADMN-2003	Supervise publications and directives programs	14-5
2149-ADMN-2004	Manage MOS training programs	14-6
2149-ADMN-2005	Supervise support equipment programs	14-7
2149-ADMN-2006	Supervise supply support programs	14-7
2149-ADMN-2007	Supervise ground ordnance maintenance facilities	14-8
2149-ADMN-2008	Supervise ground ordnance maintenance workload	14-9
2149-ADMN-2009	Supervise maintenance productions schedules	14-9
2149-ADMN-2010	Supervise preventive maintenance checks and services (PMCS) program	14-10
2149-ADMN-2011	Supervise Corrective Maintenance (CM) programs	14-11
2149-ADMN-2012	Supervise equipment modification programs	14-11
2149-ADMN-2013	Monitor environmental compliance for ground ordnance equipment	14-12
2149-ADMN-2014	Supervise shop safety program	14-13
2149-ADMN-2015	Supervise embarkation of ground ordnance equipment	14-13
2149-ADMN-2016	Prepare routine correspondence, messages, and reports	14-14
2149-ADMN-2017	Coordinate load test procedures	14-15
2149-ADMN-2018	Supervise physical security of ground ordnance equipment	14-16
2149-ADMN-2019	Assist in the fielding of ground ordnance equipment	14-16
2149-TECH-2020	Supervise recovery operations of ordnance vehicles	14-17
2149-TECH-2021	Supervise licensing program for ordnance recovery vehicles	14-17
2149-TECH-2022	Supervise the Joint Oil Analysis Program (JOAP)	14-18
2149-TECH-2023	Provide technical supervision in the repair of the family of ordnance vehicles	14-19

14003. 2000-LEVEL INDIVIDUAL EVENTS

2149-ADMN-2001: Establish maintenance management programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure maintenance operations are conducted efficiently and effectively to meet mission requirements.

PERFORMANCE STEPS:
1. Identify mission requirements.
2. Analyze capabilities.
3. Determine resource requirements.
4. Analyze external requirements.
5. Develop procedures to comply with functional areas of maintenance management.
6. Implement maintenance management programs
7. Supervise maintenance management programs

REFERENCES:
1. MCBUL 1200 Military Occupational Specialties Manual
2. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
3. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

2149-ADMN-2002: Supervise ground ordnance maintenance resources

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records, personal, maintenance facilities, and a budget.

STANDARD: To ensure mission requirements and equipment readiness are maintained.

PERFORMANCE STEPS:
1. Identify available resources.
2. Consolidate time into usable blocks.
3. Assist in conducting T/O&E reviews.
4. Identify personnel strengths and weaknesses to match them against mission requirements.
5. Ensure that repair parts and maintenance related supplies are requisitioned when required.
6. Ensure accountability of repair parts and maintenance related supplies.
7. Ensure tools, chests, and TMDE equipment are on hand to support mission requirements.
8. Ensure facilities required to support the mission are on hand.
9. Ensure publication requirements are on hand to support the mission.
10. Ensure funding requirements are on hand to support the mission.

REFERENCES:
1. MCDP 4 Logistics
2. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
3. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
4. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
5. MCO P4790.2 MIMMS Field Procedures Manual
6. MCO P5215.17 USMC Technical Publications System
7. MCO P5215.17 USMC Technical Publications System
8. MCO P5600.31G Marine Corps Publications and Printing Regulations
9. MCWP 4-11 Tactical-Level Logistics
10. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

2149-ADMN-2003: Supervise publications and directives programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure appropriate publications/directives are on hand and current to meet mission requirements.

PERFORMANCE STEPS:
1. Determine publication requirements.
2. Register requirements.
3. Establish control procedures.
4. Maintain the publication control system.
5. Conduct internal reviews.

REFERENCES:
1. MCO 5215.1 The Marine Corps Directives System
2. MCO 5600.31 Marine Corps Publications and Printing
3. MCO P4790.2 MIMMS Field Procedures Manual
4. MCO P5215.17 USMC Technical Publications System
5. SL-1-2 Index of Authorized Publication for Equipment Support
6. SL-1-3 Index of Authorized Publication for Equipment Support
7. UM MCPDS Marine Corps Publications Distribution System Users Manual
8. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

2149-ADMN-2004: Manage MOS training programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure personnel are adequately trained to meet mission requirements.

PERFORMANCE STEPS:
1. Identify requirements.
2. Identify training resources.
3. Establish the MOS training sustainment matrix.
4. Schedule annual MOS training.
5. Develop lesson plans.
6. Conduct training
7. Document training
8. Conduct internal reviews of training plan.

REFERENCES:
1. MCO 1553.3A Marine Corps Unit Training Management
2. MCO P4790.2 MIMMS Field Procedures Manual
3. MCRP 3-0A Unit Training Management Guide
4. MCRP 3-0B How to Conduct Training

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

2149-ADMN-2005: Supervise support equipment programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure support equipment is properly utilized to meet mission requirements.

PERFORMANCE STEPS:
1. Identify requirements.
2. Establish control procedures.
3. Supervise tool control procedures.
4. Supervise calibration procedures.
5. Supervise preventive maintenance for support equipment.
6. Supervise corrective maintenance for support equipment.
7. Conduct internal reviews.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: The term support equipment includes but is not limited to tool sets, chests, jacks, stands, and TMDE (calibration equipment). Automated systems include CD-ROM and web based information.

2149-ADMN-2006: Supervise supply support programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure supply support programs are employed per the mission requirements.

PERFORMANCE STEPS:
1. Identify supply requirements.
2. Supervise the accountability for all repair parts.

3. Supervise validation procedures.
4. Supervise reconciliation procedures.
5. Conduct internal reviews.

REFERENCES:
1. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
2. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
3. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
4. MCO P4400.82 MIMMS Controlled Item Management Manual
5. MCO P4790.2 MIMMS Field Procedures Manual
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
7. UM 4400-124 FMF SASSY Using Unit Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2007: Supervise ground ordnance maintenance facilities

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure maintenance facilities are adequately utilized per the mission requirements.

PERFORMANCE STEPS:
1. Identify facility requirements.
2. Develop maintenance flow plan.
3. Organize facilities to support mission.
4. Evaluate Operational Risk Management (ORM).
5. Maintain facilities.

REFERENCES:
1. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
3. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2008: Supervise ground ordnance maintenance workload

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, equipment records, automated reports, and maintenance resources.

STANDARD: To ensure maintenance production is accomplished per the mission requirements and available resources.

PERFORMANCE STEPS:
1. Determine available resources.
2. Evaluate workload.
3. Consolidate time into usable blocks.
4. Determine production capability.
5. Prioritize workload.
6. Assign work.
7. Ensure quality control procedures.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM and web based information.

2149-ADMN-2009: Supervise maintenance productions schedules

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure maintenance related programs are accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Identify mission requirements.
2. Supervise Product Quality Deficiency Report (PDQR) program.
3. Supervise Corrosion Prevention and Control (CPAC).
4. Supervise Quality Control (QC) program.
5. Supervise unit level execution of depot level maintenance programs.
6. Supervise execution of Contract Logistics Support (CLS).

7. Supervise demilitarization procedures.
8. Supervise Military Awards/Incentives Program.

REFERENCES:
1. DOD 4160.21-M-1 Defense Demilitarization Manual
2. MCO 1650.17F USMC Military Incentive Award Program
3. MCO 3000.11C Marine Ground Readiness Reporting
4. MCO 4105.2 Marine Corps Warranty Program
5. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
6. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
7. MCO 4855.10 Product Quality Deficiency Report (PQDR)
8. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
9. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
10. MCO P4790.2 MIMMS Field Procedures Manual
11. MCO P4790.3 MIMMS Depot Policy Manual
12. TM 4700-15/1 Equipment Record Procedures
13. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2010: Supervise preventive maintenance checks and services (PMCS) program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure preventive maintenance checks and services are properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Identify PMCS requirements.
2. Identify cyclic maintenance requirements.
3. Identify special maintenance requirements.
4. Identify deferred maintenance requirements.
5. Develop PMCS schedule.
6. Supervise documentation of PMCS program.
7. Supervise Quality Control (QC) procedures for PMCS program.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual

2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2011: Supervise Corrective Maintenance (CM) programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure corrective maintenance is properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Identify corrective maintenance requirements.
2. Supervise the prioritization of corrective maintenance requirements.
3. Ensure all applicable maintenance procedures are followed.
4. Ensure all applicable reporting procedures are followed.
5. Monitor progress of corrective maintenance.
6. Ensure quality control procedures are followed.
7. Maintain liaison with external maintenance activities.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2012: Supervise equipment modification programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure equipment modifications are properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Identify equipment modification requirements.
2. Verify equipment configurations.
3. Supervise modifications.
4. Supervise documentation of modification.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2013: Monitor environmental compliance for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, and a maintenance facility.

STANDARD: To ensure environmental compliance procedures are properly observed per the mission requirements.

PERFORMANCE STEPS:
1. Determine environmental compliance requirements.
2. Monitor unit environmental compliance with unit representative.
3. Implement corrective actions.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
6. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area of environmental compliance should include but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC Licenses, Material Safety Data Sheets (MSDS). Automated systems include CD-ROM, and web based information.

2149-ADMN-2014: Supervise shop safety program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, and a maintenance facility.

STANDARD: To ensure shop safety practices are properly observed per the mission requirements.

PERFORMANCE STEPS:
1. Determine safety program requirements.
2. Monitor compliance with shop safety procedures.
3. Implement corrective actions.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.105 Radioactive Commodities DOD System
6. MCO P4790.2 MIMMS Field Procedures Manual
7. MCO P5090.2A Environmental Compliance and Protection Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area of safety encompasses all aspects of ground safety, which includes but is not limited to the following areas of concern: laser safety, Occupational Safety & Health Administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery rooms, Personal Protective Equipment (PPE), heat conditions, fire protection, medical surveillance programs, and industrial hygiene. Automated systems include CD-ROM, and web based information.

2149-ADMN-2015: Supervise embarkation of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure ordnance equipment is properly embarked per the mission requirements.

PERFORMANCE STEPS:
1. Determine embarkation requirements.
2. Ensure that requirements are documented.
3. Supervise coordination with embarkation personnel.
4. Supervise the preparation of equipment for embark.

REFERENCES:
1. MCO 4030.16 Marine Corps Packing and Packing Maintenance of Small Arms
2. MCO 4030.19 Special Provisions
3. MCO 4030.25 Storage and Supply Activities
4. MCO 4030.33 Packaging of Material
5. MCO 4030.36 Marine Corps Packing Manual
6. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
7. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
8. MCO 4600.25 Transportation and Traffic Management
9. MCO 4600.30 Use of Intermodal Containers, Special Purpose Vans, and Tactical Vehicles
10. MCO 4610.15 Shipment of Military Equipment, Explosives and other Dangerous Articles
11. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
12. MCO P4600.14 Transportation Fac Guide Vol 4
13. MCO P4600.19 Commercial Service Plan
14. MCO P4610.19 Commercial Service Plan
15. MCWP 4-1 Logistics Operations

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2016: Prepare routine correspondence, messages, and reports

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access and the information required to publish.

STANDARD: To ensure correspondence, messages, and reports are properly completed per the mission requirements.

PERFORMANCE STEPS:
1. Draft correspondence as required.
2. Draft messages as required.
3. Draft reports as required.
4. Supervise maintenance of files.

REFERENCES:
1. MCO P1070.12 Individual Records Administration Manual (IRAM)
2. MCWP 3-1 Ground Combat Operations
3. SECNAVINST 5216.5 Naval Correspondence Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2017: Coordinate load test procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure load testing is properly conducted, certified, and maintained per the mission requirements.

PERFORMANCE STEPS:
1. Identify load-testing requirements.
2. Establish a load test certification schedule.
3. Assist certifying authority.
4. Supervise completion of administrative functions.

REFERENCES:
1. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. NAVFAC P-307 Management of Weight Handling Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2018: Supervise physical security of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records, and ground ordnance equipment storage facilities.

STANDARD: To ensure ground ordnance equipment is properly safeguarded from theft/tampering per the mission requirements.

PERFORMANCE STEPS:
1. Identify security requirements.
2. Review security procedures.
3. Evaluate security compliance of ordnance storage facilities.
4. Assist in Arms, Ammunition & Explosives (AA&E) screenings.
5. Ensure personnel are security trained.
6. Ensure accountability of AA&E.

REFERENCES:
1. MCO 4340-1A Reporting Lost or Stolen Government Property
2. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
3. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
4. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
5. OPNAVINST 5530.13C Physical Security and Loss Prevention
6. OPNAVINST 5530.14 Physical Security and Loss Prevention

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-ADMN-2019: Assist in the fielding of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure equipment fielding is supported and accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Validate equipment fielding requirements.

2. Review fielding documents.
3. Assist in fielding plan.
4. Coordinate placement of equipment into service.
5. Monitor completion of administrative functions.

REFERENCES:
1. MCO 4400.82 MIMMS Controlled Item Management Manual
2. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
3. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-TECH-2020: Supervise recovery operations of ordnance vehicles

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure the recovery of vehicle is safely accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Conduct recovery training.
2. Identify recovery requirements.
3. Conduct Battle Damage Assessment and Repair (BDAR).
4. Conduct ORM for recovery.
5. Supervise recovery operations.
6. Coordinate external recovery support.
7. Monitor completion of administrative functions.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. MCO P4790.2 Marine Integrated Maintenance Management System
3. MCRP 4-11.4A Recovery and Battlefield Damage Assessment and Repair

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-TECH-2021: Supervise licensing program for ordnance recovery vehicles

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure required personnel are properly trained and licensed to meet mission requirements.

PERFORMANCE STEPS:
1. Identify licensing requirements.
2. Review licensing procedures.
3. Coordinate licensing training.
4. Ensure training is documented.
5. Coordinate ORM.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information.

2149-TECH-2022: Supervise the Joint Oil Analysis Program (JOAP)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure oil analyses are properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Determine equipment requiring oil analysis.
2. Analyze results.
3. Determine corrective action.
4. Monitor administrative functions.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TI-4731-14/1C MC Joint Oil Analysis Program
4. TM 4700-15/1 Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Administrative function includes records and reports. Automated systems include CD-ROM, and web based information.

2149-TECH-2023: Provide technical supervision in the repair of the family of ordnance vehicles

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel, personnel records, equipment, equipment records, and maintenance facilities.

STANDARD: To ensure maintenance of ordnance vehicles is properly accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Identify requirements.
2. Identify deficiencies.
3. Identify maintenance solutions.
4. Supervise maintenance.
5. Supervise maintenance personnel.
6. Ensure safety of personnel.
7. Supervise completion of administrative functions.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Automated systems include CD-ROM, and web based information

GROUND ORD MAINT T&R MANUAL

CHAPTER 15

MOS 2161 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	15000	15-2
EVENT CODING	15001	15-2
ADMINISTRATIVE NOTES	15002	15-2
INDEX OF INDIVIDUAL EVENTS	15003	15-3
1000-LEVEL EVENTS	15004	15-4
2000-LEVEL EVENTS	15005	15-17

CHAPTER 15

MOS 2161 INDIVIDUAL EVENTS

15000. PURPOSE. This chapter contains individual training events for the Machinist.

15001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2161). The second four digits represent the functional or duty area: Administrative Functions (ADMN), Equipment Repair and Fabrication (FABR), and Machine Operations (MACH). The last four digits represent the level, and identifier number of the event. This chapter contains both 1000 and 2000 level events. Each individual event has an identifier number from 001 to 999.

15002. ADMINISTRATIVE NOTES

1. Maintenance and/or repairs are limited to authorized echelon of maintenance.

2. Automated systems include CD-ROM, web based information and all applications of electronic media.

3. OPNAV 4790.2, Naval Aviation Maintenance Program will be utilized by Marine Corps air wing units.

15003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	1000-LEVEL	
2161-ADMN-1001	Follow basic shop procedures	15-4
2161-ADMN-1002	Operate computer numerical control (CNC) equipment	15-4
2161-FABR-1003	Extract broken bolt, tap, drill bit, or stud	15-5
2161-FABR-1004	Extract thread inserts	15-6
2161-FABR-1005	Read a basic shop drawing	15-6
2161-FABR-1006	Weld band saw blade	15-7
2161-FABR-1007	Sharpen turning tool bits	15-8
2161-FABR-1008	Sharpen twist drill bits	15-8
2161-MACH-1009	Operate band saw	15-9
2161-MACH-1010	Operate bench grinder	15-9
2161-MACH-1011	Operate horizontal band saw (cutoff saw)	15-10
2161-MACH-1012	Operate drill press	15-10
2161-MACH-1013	Set up lather	15-11
2161-MACH-1014	Perform threading operations	15-12
2161-MACH-1015	Perform lathe operations	15-12
2161-MACH-1016	Perform lathe turning operations	15-13
2161-MACH-1017	Operate milling machine	15-14
2161-MACH-1018	Operate hardness tester	15-14
2161-MACH-1019	Operate digital read out (DRO)	15-15
2161-MACH-1020	Perform knurling operations	15-16
	2000-LEVEL	
2161-ADMN-2001	Implement maintenance management training program	15-17
2161-ADMN-2002	Implement supply support program	15-17
2161-ADMN-2003	Maintain machine shop functional areas	15-18
2161-ADMN-2004	Maintain maintenance transaction reports	15-18
2161-ADMN-2005	Follow basic maintenance procedures	15-19
2161-FABR-2006	Perform heat treating operation	15-20
2161-FABR-2007	Sharpen milling cutters	15-20
2161-MACH-2008	Operate drill grinding machine	15-21
2161-MACH-2009	Operate electro-disintegrating machine	15-22
2161-MACH-2010	Perform cutting operation with oxyacetylene welding equipment	15-22
2161-MACH-2011	Operate surface grinder	15-23
2161-MACH-2012	Perform corrective maintenance (CM) on machinist's equipment	15-24
2161-MACH-2013	Operate hydraulic press	15-24
2161-MACH-2014	Operate lathe milling attachment/versa mill	15-25
2161-MACH-2015	Operate machinist's van	15-26

15004. 1000-LEVEL INDIVIDUAL EVENTS

2161-ADMN-1001: Follow basic shop procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given common tools, power tools, precision measuring tools, and the current authorized technical information.

STANDARD: In order to properly maintain assigned work area in the accomplishment of maintenance assignments.

PERFORMANCE STEPS:
1. Organize tools and equipment within work area.
2. Follow instructions care of tools.
3. Observe safety regulations.
4. Observe hazardous material regulations.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5 DOD Hazard Communication Program
3. FM 9-243 Use and Care of Hand Tools and Measuring Tools
4. MCO P5090.2A Environmental Compliance and Protection Manual
5. TM 10209-10/1 Use and Care of Hand Tools & Measuring Tools

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may have been exposed to a hazardous material must: (1)have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; (2) have access to label information and material safety data sheets to understand the hazard(s); and (3) identify the necessary personal protective equipment and special precautions to use while working with chemical.

2161-ADMN-1002: Operate computer numerical control (CNC) equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a computer numerical control machine, and the current authorized technical information.

STANDARD: To ensure the computer numerical control machine is ready to perform required machinist operations.

PERFORMANCE STEPS:
1. Use shop math.
2. Perform manual programming of machine.
3. Perform Computer Aided Manufacturing operations.
4. Perform Machining Operations.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes 1, par 15020

2161-FABR-1003: Extract broken bolt, tap, drill bit, or stud

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given broken bolt, tap, drill bit or stud, drill, easy outs, stud extractor, electro-disintegrating machine, oxyacetylene welding torch, machinist's tool box, and the current authorized technical information.

STANDARD: Ensuring broken machine part is extracted correctly.

PERFORMANCE STEPS:
1. Determine what must be extracted.
2. Determine appropriate extraction procedure.
3. Extract broken part.
4. Recondition threaded hole as required.
5. Perform Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative notes, par 15020.

2161-FABR-1004: Extract thread inserts

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment with damaged threads, insert kit, machinist's tool box, safety equipment, and the current authorized technical information.

STANDARD: Ensuring inserts are properly inserted, extracted and replaced.

PERFORMANCE STEPS:
1. Read directions on insert kit.
2. Insert/Extract thread insert.
3. Perform Preventive Maintenance Checks and Services (PMCS).
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative notes 2 & 3, par 15020. Types of thread kits include: helicoil, keensert, and roseanne. Instructions are provided with each thread insert repair kit.

2161-FABR-1005: Read a basic shop drawing

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given specifications of items to be drawn, drafting equipment, and the current authorized technical information.

STANDARD: To ensure drawing is prepared to specification.

PERFORMANCE STEPS:
1. Gather necessary materials for drawing.

2. Complete drawing, ensuring accuracy and compliance with requested specifications.
3. Complete maintenance and or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative notes, par 15020.

2161-FABR-1006: Weld band saw blade

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given band saw with welder, spool or band saw blade, and the current authorized technical information.

STANDARD: Ensuring the blade is cut and welded to specifications.

PERFORMANCE STEPS:
1. Cut blade to appropriate length.
2. Grind ends to match.
3. Place on welder blade holders.
4. Weld and anneal blades.
5. Grind off excess weld.
6. Check on blade thickness gage.
7. Fit on band saw.
8. Perform cutting operations.
9. Perform Preventive Maintenance Checks and Services (PMCS).
10. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. OPNAV 4790.2 Naval Aviation Maintenance Program
2. Operator's Manual
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
5. TM 9-3419-227-10 Saw Band Metal Cutting

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative notes, par 15020.

2161-FABR-1007: Sharpen turning tool bits

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 3 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given bench grinder, coolant, tool bit, safety equipment, and the current authorized technical information.

STANDARD: Ensuring bits are sharpened to required shape per the specifications.

PERFORMANCE STEPS:
1. Perform preventive maintenance check on bench grinder.
2. Grind turning tool bit to required specification.
3. Quench tool bit when needed.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative notes, par 15020.

2161-FABR-1008: Sharpen twist drill bits

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 3 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given bench grinder, tool bit, drill gage, safety equipment, and the current authorized technical information.

STANDARD: Ensuring bits are sharpened to specifications.

PERFORMANCE STEPS:
1. Perform preventive maintenance check on bench grinder.
2. Sharpen drill bit to desired angle.
3. Check finished bit with gauge.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program

3. TC 9-524 Fundamentals of Machine Tools
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative notes, par 15020.

2161-MACH-1009: Operate band saw

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a machinist tool box, a lay out die, a piece of raw stock, special measuring tools, a shop drawing, safety equipment, and the current authorized technical information.

STANDARD: Ensuring the band saw is set up for filing, cutting, polishing, and contour cutting, per the Machinist's handbook.

PERFORMANCE STEPS:
1. Lay out work.
2. Perform preventive maintenance check on band saw.
3. Set up band saw for operation.
4. Cut stock to dimensions given on shop drawing.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. OPNAV 4790.2 Naval Aviation Maintenance Program
2. TC 9-524 Fundamentals of Machine Tools
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1010: Operate bench grinder

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a machinist tool box, material required for grinding, a shop drawing, coolant, safety equipment, and the current authorized technical information.

STANDARD: Ensuring the bench grinder is operated safely.

PERFORMANCE STEPS:
1. Lay out work.
2. Perform preventive maintenance check on grinder.
3. Start bench grinder.
4. Dressing grinding wheel.
5. Grind material to size per shop drawing.
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. OPNAV 4790.2 Naval Aviation Maintenance Program
2. TC 9-524 Fundamentals of Machine Tools
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1011: Operate horizontal band saw (cutoff saw)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given machinist’s tool box, stock, safety equipment, lay out die, shop drawing, manufacturer/operator's manual, machinist's handbook, measuring tools, and the current authorized technical information.

STANDARD: Ensuring cutoff operations are completed accurately and safely.

PERFORMANCE STEPS:
1. Lay out work.
2. Perform preventive maintenance check on saw.
3. Set up saw for specific cut.
4. Perform the cutting operation.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. OPNAV 4790.2 Naval Aviation Maintenance Program
2. TC 9-524 Fundamentals of Machine Tools
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

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2161-MACH-1012: Operate drill press

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a drill press, machinist's toolbox, lay-out equipment, Stock, appropriate bits, measuring tools, a shop drawing, coolant, safety equipment, and the current authorized technical information.

STANDARD: Ensuring the drill press is operated safely.

PERFORMANCE STEPS:
1. Lay out stock.
2. Perform preventive maintenance check on drilling machine and bits.
3. Set up drill.
4. Perform drilling operation per shop drawings.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. OPNAV 4790.2 Naval Aviation Maintenance Program
2. TC 9-524 Fundamentals of Machine Tools
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1013: Set up lather

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a specific task, lathe, accessories, machinist tool box, and the current authorized technical information.

STANDARD: Ensuring the lathe is operational and the correct method of holding material in lathe is determined using available accessories per the references.

PERFORMANCE STEPS:
1. Determine type of operation that must be performed.
2. Determine type of holding device or devices required to perform operation.
3. Perform required lathe procedures.
4. Conduct Preventive Maintenance Checks and Services (PMCS).
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual

4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1014: Perform threading operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a lathe with attachments, drill bits, reamers, and material requiring one or more of these operations, machinist's tool box, and the current authorized technical information.

STANDARD: Ensuring that drilling, boring, and reaming operations on material using lathe with attachments are performed to required specifications.

PERFORMANCE STEPS:
1. Determine specifications for type of thread to be cut.
2. Set up lathe, holding devices, accessories and material to be threaded.
3. Perform external threading with lathe.
4. Perform threading with die.
5. Perform internal threading with lathe.
6. Perform internal threading with tap.
7. Measure thread to ensure correct tolerances.
8. Perform Preventive Maintenance Checks and services (PMCS).
9. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1015: Perform lathe operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a lathe with attachments, drill bits, reamers, and material requiring one or more of these operations, machinist's tool box, and the current authorized technical information.

STANDARD: Ensuring that drilling, boring, and reaming operations on material using lathe with attachments are performed to required specifications.

PERFORMANCE STEPS:
1. Determine type of drilling, boring and/or reaming operation required.
2. Setup lathe with required attachments.
3. Perform drilling, boring, and/or reaming operations.
4. Ensure finished product meets specifications.
5. Conduct Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1016: Perform lathe turning operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a lathe with attachments, measuring equipment, machinist, and material requiring one or more of these operations, machinist's tool box, and the current authorized technical information.

STANDARD: Ensuring that lathe turning operations (including straight taper, facing, grooving, radii, parting, filing and polishing and using lathe with attachments) are performed to required specifications.

PERFORMANCE STEPS:
1. Determine type of turning operation required.
2. Set up lathe and accessories for required operations.
3. Perform turning operations.
4. Ensure turned material meets required specifications.
5. Conduct Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1017: Operate milling machine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a milling machine with attachments and accessories, machinist's tool box, and the current authorized technical information.

STANDARD: Ensuring milling operations are performed to required specifications.

PERFORMANCE STEPS:
1. Determine type of operation required.
2. Set up milling machine to perform required operation.
3. Perform milling operation or series of operations.
4. Ensure milled material meets required specifications.
5. Conduct Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1018: Operate hardness tester

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a hardness tester, specifications, material to be tested, and the current authorized technical information.

STANDARD: Ensuring the material is tested as specified.

PERFORMANCE STEPS:
1. Determine type of test to be conducted.
2. Set up machine and material to be heated.
3. Conduct hardness test.
4. Document results of test.
5. Perform Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1019: Operate digital read out (DRO)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a machine with x, y, and z digital read out, machinist's tool box, and the current authorized technical information.

STANDARD: Ensuring operations are performed to required specifications.

PERFORMANCE STEPS:
1. Zero display.
2. Use an edge finder/cutting tool to set absolute zero.
3. Set absolute zero using tool offset.
4. Change the position of absolute zero.

REFERENCES:
1. Machinist Handbook
2. Operator's Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-1020: Perform knurling operations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a lathe with attachments, measuring equipment, material to knurl, machinist's tool box, and the current authorized technical information.

STANDARD: Ensuring the device knurls on material to required specifications.

PERFORMANCE STEPS:
1. Determine specifications for type of knurl.
2. Set up lathe, accessories, and material to be knurled.
3. Execute knurling operations.
4. Measure knurled material to ensure correct tolerances.
5. Perform Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

15005. 2000-LEVEL INDIVIDUAL EVENTS

2161-ADMN-2001: Implement maintenance management training program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given the assignment for training, training materials, and the current authorized technical information.

STANDARD: To ensure training is accomplished per requirements.

PERFORMANCE STEPS:
1. Implement maintenance management administrative training.
2. Schedule technical maintenance training.

REFERENCES:
1. MCO P4790.2 Marine Integrated Maintenance Management System
2. OPNAV 4790.2 Naval Aviation Maintenance Program

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes 2 & 3, par 15020.

2161-ADMN-2002: Implement supply support program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given supply forms and reports, and the current authorized technical information.

STANDARD: To ensure requirements of the program are accomplished accurately.

PERFORMANCE STEPS:
1. Prepare a supply request.
2. Conduct supply reconciliation.

REFERENCES:
1. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
2. MCO P4450.12 Storage and Handling of Hazardous Materials
3. MCO P4790.2 Marine Integrated Maintenance Management System
4. OPNAV 4790.2 Naval Aviation Maintenance Program

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 15020

2161-ADMN-2003: Maintain machine shop functional areas

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a machine shop and the current authorized technical information.

STANDARD: To ensure the functional areas are maintained safely and efficiently to perform the required mission.

PERFORMANCE STEPS:
1. Maintains Calibrations Control Program.
2. Maintain Tool Control Program.
3. Maintain Desktop Procedures.
4. Maintain Modifications Control Program.
5. Maintain Preventive Maintenance Program.
6. Maintain Corrective Maintenance Program.
7. Maintain Quality Control Program.
8. Maintain Training Program.
9. Coordinate embarkation with units’ embark personnel.
10. Maintain Operational Risk Management (ORM).

REFERENCES:
1. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
2. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
3. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
4. MCO P4790.2 Marine Integrated Maintenance Management System
5. TI-4733-15/1 Calibration Requirements
6. TI-4733-15/11F Infantry Weapons Gauge Calibration Exchange Program
7. TM 4700-15/1 Equipment Record Procedures
8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
9. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

2161-ADMN-2004: Maintain maintenance transaction reports

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given various records, reports, and the current authorized technical information.

STANDARD: Ensuring all maintenance transactions reports are updated in a timely manner.

PERFORMANCE STEPS:
1. Analyze DPR.
2. Verify transactions on DTL.
3. Verify exception reports.
4. Verify LM2 report
5. Verify TAM report.
6. Submit maintenance transactions.
7. Conduct required reconciliation's.

REFERENCES:
1. MCO 4400.16 Uniform Material Movement Issue and Priority System (UMMIPS)
2. MCO P4790.2 Marine Integrated Maintenance Management System
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area should encompass all aspects of automated maintenance reporting procedures and systems, which include but not limited to the following: Marine Management/Automated Information Systems (MIMMS/AIS). Automated systems include CD-ROM, and web based information.

2161-ADMN-2005: Follow basic maintenance procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment repair records and forms, and the current authorized technical information.

STANDARD: To validate equipment serviceability and completion of maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Utilize required publications and directives.
2. Adhere to Modification Instructions.
3. Adhere to Calibration procedures.
4. Complete maintenance management forms needed to document work.

REFERENCES:
1. MCO P4790.2C MIMMS Field Procedures Manual
2. MCO P5215.17 USMC Tech Pub System
3. SL-1-2 Index of Authorized Publication for Equipment Support

4. SL-1-3 Index of Authorized Publication for Equipment Support
5. TI-4733-15/1 Calibration Requirements
6. TM 4700-15/1 Equipment Record Procedures
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
8. UM 4400-124 FMF SASSY Using Unit Procedures
9. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

2161-FABR-2006: Perform heat treating operation

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given metal object, heat source, quenching and annealing material, specifications from hardness tester, and the current authorized technical information.

STANDARD: Ensuring the operation is accomplished to specifications required and verifies results using hardness tester.

PERFORMANCE STEPS:
1. Determine material to be used for type of heat-treating to be performed.
2. Apply proper heat to metal treated.
3. Quench or anneal metal treated.
4. Verify hardness of treated metal by performing hardness test.
5. Perform Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
6. TM 9-237 Welding Theory and Application

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 15020.

2161-FABR-2007: Sharpen milling cutters

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a cutter grinder, accessories, cutters to be sharpened, safety equipment, machinist's toolbox, and the current authorized technical information.

STANDARD: Ensuring cutters are sharpened to specification.

PERFORMANCE STEPS:
1. Perform preventive maintenance check on cutter grinder.
2. Set up grinder for cutter to be ground.
3. Grind cutter to required specifications.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 15020

2161-MACH-2008: Operate drill grinding machine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a drill grinding machine, drill bits to be sharpened, safety equipment, machinist's tool box, and the current authorized technical information.

STANDARD: Ensuring the drill grinding machine is operated safely and per the machinist's handbook.

PERFORMANCE STEPS:
1. Set up drill grinding machine.
2. Grind drill bits.
3. Conduct Preventive Maintenance Checks and Services (PMCS).
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 15020.

2161-MACH-2009: Operate electro-disintegrating machine

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given an electro disintegrating machine accessories, machinist's tool box, piece containing broken bolt, hardened drill bit, and the current authorized technical information.

STANDARD: Ensuring electro disintegrating machine is operated safely.

PERFORMANCE STEPS:
1. Perform preventive maintenance check on machine.
2. Remove broken parts as required.
3. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. OPNAV 4790.2 Naval Aviation Maintenance Program
2. Operator's Manual
3. TM 4700-15/1 Equipment Record Procedures
4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 15020.

2161-MACH-2010: Perform cutting operation with oxyacetylene welding equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given oxyacetylene welding equipment, material to be cut, automated systems with internet access, and the current authorized technical information.

STANDARD: Ensuring cutting operations are performed safely and accurately.

PERFORMANCE STEPS:
1. Lay out work.
2. Set up equipment.
3. Perform cutting operation.

4. Conduct Preventive Maintenance Checks and Services (PMCS).
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-237 Welding Theory
5. TC 9-524 Fundamentals of Machine Tools
6. TM 4700-15/1 Equipment Record Procedures
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 15020.

2161-MACH-2011: Operate surface grinder

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given surface grinder, material to be ground, test equipment, safety equipment, machinist's tool box, and the current authorized technical information.

STANDARD: Ensuring the material is ground to specifications.

PERFORMANCE STEPS:
1. Determine speed and feed to be used.
2. Set up machine for grinding operation.
3. Perform grinding operations.
4. Check ground material for proper tolerances.
5. Conduct Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 15020.

2161-MACH-2012: Perform corrective maintenance (CM) on machinist's equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given machinist's equipment requiring corrected maintenance, and the current authorized technical information.

STANDARD: Ensuring machinist's equipment assigned to repair facility is maintained in a serviceable condition.

PERFORMANCE STEPS:
1. Identify defect.
2. Determine warranty status.
3. Determine shop capability to perform corrective maintenance.
4. Determine facility maintenance capabilities and time line.
5. Identify external source of corrective maintenance.
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual
2. Machinist Handbook
3. OPNAV 4790.2 Naval Aviation Maintenance Program
4. Operator's Manual
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
7. TM 9-243 Common Tools Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 15020. The chain of command is the final authority for the out scoring of all corrective maintenance.

2161-MACH-2013: Operate hydraulic press

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a hydraulic press, material required or equipment requiring pressing in or out, and the current authorized technical information.

STANDARD: Ensuring the pressing operations are completed safely and the project is completed according to design and specifications.

PERFORMANCE STEPS:
1. Set up hydraulic press.

2. Perform pressing operation.
3. Conduct Preventive Maintenance Checks and Services (PMCS).
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-2014: Operate lathe milling attachment/versa mill

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a lathe milling attachment/versa mill, material to be milled, cutters, lathe with accessories, machinist's tool box, measuring instruments, specifications, and the current authorized technical information.

STANDARD: Ensuring milling operations are accurate and performed per specifications.

PERFORMANCE STEPS:
1. Determine type of milling operation required.
2. Set up lathe with milling attachment for desired operation.
3. Perform required milling operations.
4. Ensure material milled conforms to required specifications.
5. Conduct Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TC 9-524 Fundamentals of Machine Tools
5. TM 4700-15/1 Equipment Record Procedures
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

2161-MACH-2015: Operate machinist's van

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 6 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a machine shop van and the current authorized technical information.

STANDARD: Ensuring the machinist's van is ready to perform required machinist operations.

PERFORMANCE STEPS:
1. Set up machinist van.
2. Inventory machinist's van.
3. Perform machinist's van Preventive Maintenance Checks and Services.
4. Perform machining operations.
5. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Machinist Handbook
2. OPNAV 4790.2 Naval Aviation Maintenance Program
3. Operator's Manual
4. TM 4700-15/1 Equipment Record Procedures
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
6. UM 4400-124 FMF SASSY Using Unit Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative notes, par 15020.

GROUND ORD MAINT T&R MANUAL

CHAPTER 16

MOS 2171 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	16000	16-2
EVENT CODING	16001	16-2
ADMINISTRATIVE NOTES	16002	16-2
INDEX OF INDIVIDUAL EVENTS	16003	16-3
1000-LEVEL EVENTS	16004	16-5
2000-LEVEL EVENTS	16005	16-22

CHAPTER 16

MOS 2171 INDIVIDUAL EVENTS

16000. PURPOSE. This chapter contains individual training events for the Electro-Optical Ordnance Repairer.

16001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2171). The second four digits represent the functional or duty area: Administrative Functions (ADMN), Basic Electronics (ELEC), and Maintenance Functions (MAIN). The last four digits represent the level, and identifier number of the event. This chapter contains both 1000 and 2000 level events. Each individual event has an identifier number from 001 to 999.

16002. ADMINISTRATIVE NOTES

1. Maintenance and/or repairs limited to authorized echelon of maintenance.

2. To comply with 29 CFR 1910.1200 (Hazard Communication), employees who may be exposed to a hazardous material must (1) have been provided information and training prior to their initial assignment to work with the hazardous chemical and whenever the hazard changes; and (2) have access to label information and material safety data sheets to understand the hazard(s); and (3) to identify the necessary personal protective equipment and special precautions to use while working with the chemical.

16003. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	1000-LEVEL	
2171-ADMN-1001	Follow basic shop procedures	16-5
2171-ADMN-1002	Follow basic maintenance procedures	16-5
2171-ELEC-1003	Analyze electronic devices/components	16-6
2171-ELEC-1004	Analyze electronic circuits/components	16-6
2171-MAIN-1005	Operate AN/TAM-3B Night Sight Test Set	16-7
2171-MAIN-1006	Operate AN/TSM-140B TOW Field Test Set (TFTS)	16-7
2171-MAIN-1007	Operate AN/TSM-152 Missile Guidance Set Test Set (MGSTS)	16-8
2171-MAIN-1008	Operate TS-3784/TAS Bore sight Collimator Test Set	16-9
2171-MAIN-1009	Operate AN/TAM-5 Amplifier Test Set	16-9
2171-MAIN-1010	Operate AN/USM-615 Direct Support Electronic System Test Set (DSESTS)	16-10
2171-MAIN-1011	Operate GPIA-LAV Electronic Systems Test Set	16-10
2171-MAIN-1012	Operate the AN/USM-657 Third Echelon Test Set (TETS)	16-11
2171-MAIN-1013	Operate cross-leveling fixture	16-11
2171-MAIN-1014	Operate Azimuth Test Fixtures	16-12
2171-MAIN-1015	Operate PP-8333/U Battery Analyzer-Charger (Christie)	16-12
2171-MAIN-1016	Operate TS-4348/UV Electronic Systems Test Set	16-13
2171-MAIN-1017	Maintain TOW Weapon System	16-13
2171-MAIN-1017	Maintain Improved Target Acquisition System (ITAS)	16-14
2171-MAIN-1019	Maintain M98A1 Command Launch Unit	16-15
2171-MAIN-1020	Maintain image intensified devices	16-15
2171-MAIN-1021	Maintain thermal sights	16-16
2171-MAIN-1022	Maintain direct view optics	16-16
2171-MAIN-1023	Maintain M1 series gunners quadrant	16-17
2171-MAIN-1024	Maintain M2A2 aiming circle	16-17
2171-MAIN-1025	Maintain Towed Artillery Fire Control Systems	16-18
2171-MAIN-1026	Maintain M1A1 tank fire control system	16-18
2171-MAIN-1027	Maintain Light Armored Vehicle (LAV) series Fire Control System	16-19
2171-MAIN-1028	Maintain laser devices	16-20
2171-OPTS-1029	Analyze optical assemblies/components	16-20
2171-OPTS-1030	Follow purge/charge procedures	16-21
	2000-LEVEL	
2171-ADMN-2001	Maintain ground ordnance maintenance-related programs	16-22
2171-ADMN-2002	Maintain Ground Ordnance Maintenance Management programs	16-22
2171-ADMN-2003	Maintain electro-optical ordnance training program	16-23
2171-ADMN-2004	Maintain ground ordnance repair area	16-24
2171-ADMN-2005	Maintain compliance with security regulations	16-25
2171-ADMN-2006	Maintain ground ordnance safety program	16-25

2171-MAIN-2007	Maintain AN/TAM-3B Night Sight Test Set	16-26
2171-MAIN-2008	Maintain AN/TSM-140B TOW Field Test Set (TFTS)	16-27
2171-MAIN-2009	Maintain AN/TSM-152 Missile Guidance Set Test Set (MGSTS)	16-27
2171-MAIN-2010	Maintain TS-3784/TAS Bore sight Collimator Test Set	16-28
2171-MAIN-2011	Maintain AN/TAM-5 Amplifier Test Set	16-28
2171-MAIN-2012	Maintain AN/USM-615 Direct Support Electronic System Test Set (DSESTS)	16-29
2171-MAIN-2013	Maintain GPIA-LAV Electronic Systems Test Set	16-30
2171-MAIN-2014	Maintain AN/USM-657 Third Echelon Test Set (TETS)	16-30
2171-MAIN-2015	Maintain Cross-Leveling Fixture	16-31
2171-MAIN-2016	Maintain Azimuth Test Fixture	16-31
2171-MAIN-2017	Operate Straight Tube Telescope Fixture	16-32
2171-MAIN-2018	Maintain Straight Tube Telescope Fixture	16-32
2171-MAIN-2019	Maintain Electro-Optical Equipment Shelter	16-33
2171-MAIN-2020	Operate AN/USM-674 Huntron	16-33
2171-MAIN-2021	Repair TOW Weapon System Components	16-34
2171-MAIN-2022	Repair AN/UAS-12 System Components	16-34
2171-MAIN-2023	Repair Towed Artillery Fire Control System Components	16-35
2171-MAIN-2024	Repair M1A1 Tank Fire Control System Components	16-35
2171-MAIN-2025	Repair Light Armored Vehicle (LAV) Series Fire Control System Components	16-36
2171-MAIN-2026	Repair Amphibious Assault Vehicle (AAV) Fire Control System Components	16-37
2171-MAIN-2027	Repair Mortar Fire Control Systems	16-37
2171-MAIN-2028	Maintain Bore scope System	16-38
2171-MAIN-2029	Maintain Infinity Aiming Reference Collimator	16-38
2171-MAIN-2030	Maintain Shoulder-Launched Multipurpose Assault Weapon (SMAW) Fire Control System	16-39
2171-MAIN-2031	Maintain AN/VLQ-6 Missile Countermeasure Device	16-39
2171-MAIN-2032	Maintain M21 Remote Sensing Chemical Agent Alarm (RSCAAL)	16-40

16004. 1000-LEVEL INDIVIDUAL EVENTS

2171-ADMN-1001: Follow basic shop procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given common tools, power tools, and precision measuring tools.

STANDARD: In order to maintain assigned work area in a safe and operable condition.

PERFORMANCE STEPS:
1. Organize tools and equipment within work area.
2. Follow instructions for care of tools.
3. Observe safety regulations.
4. Observe hazardous material regulations.

REFERENCES:
1. FM 9-243 Use and Care of Hand Tools and Measuring Tools
2. TM 10209-10/1 Use and Care of Hand Tools & Measuring Tools
3. TM 9-254 General Maintenance Procedures for Fire Control Materiel
4. Material safety data sheets for hazardous materials

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-ADMN-1002: Follow basic maintenance procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment repair records and forms.

STANDARD: To validate equipment serviceability and completion of maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Utilize required publications and directives.
2. Adhere to modification instructions.
3. Adhere to calibration procedures.
4. Complete maintenance management forms needed to document work.

REFERENCES:
1. MCO P4790.2C MIMMS Field Procedures Manual

2. MCO P5215.17 USMC Technical Publications System
3. NAVMC 2761 Catalog of Publications
4. SL-1-2 Index of Authorized Publication for Equipment Support
5. SL-1-3 Index of Authorized Publication for Equipment Support
6. TI-4733-15/1 Calibration Requirements
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
8. UM 4400-124 FMF SASSY Using Unit Procedures
9. UM 4790-5 MIMMS AIS, Field Maintenance Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCIs: MCI 04.10, MIMMS-AIS (Maintenance Automated Information System).

2171-ELEC-1003: Analyze electronic devices/components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a basic electronic device.

STANDARD: To determine the maintenance or repair requirements of basic electronic device in accordance with the tolerance or specifications.

PERFORMANCE STEPS:
1. Identify basic electronic devices.
2. Determine function of electronic devices.
3. Test electronic devices.
4. Identify maintenance or repair requirements.

REFERENCES:
1. FM 11-62 Communications-Electronics Fundamentals: Basic Principles, Solid State Power Supplies

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Current MCIs: MCI 11.42, Solid-State Devises; MCI 28.6, Fundamentals of Digital Logic; MCI 28.20, Electronics Mathematics for Marines; MCI 13.34, Math for Marines.

2171-ELEC-1004: Analyze electronic circuits/components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a basic electronic circuit.

STANDARD: To determine the maintenance or repair requirements of basic electronic circuits in accordance with the tolerance or specifications.

PERFORMANCE STEPS:
1. Identify equipment electronic circuits.
2. Determine function of electronic circuits.
3. Test electronic circuits.
4. Identify maintenance or repair requirements.

REFERENCES:
1. FM 11-60 Communications-Electronics Fundamentals: Basic Principles, Direct Current
2. FM 11-61 Communications-Electronics Fundamentals: Basic Principles, Alternating Current
3. FM 11-62 Communications-Electronics Fundamentals: Basic Principles, Solid State Power Supplies
4. FM 11-72 Communications - Electronics Fundamentals: Digital Computers

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2171-MAIN-1005: Operate AN/TAM-3B Night Sight Test Set

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on thermal devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-3-08121 Test Set, Night Vision Sight AN/TAM-3B
2. TM 9-5855-255-14/24P

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1006: Operate AN/TSM-140B TOW Field Test Set (TFTS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment and the references.

STANDARD: To correctly perform required test procedures on TOW system.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-3-07723
2. TM 9-1425-451-34 TOW 2 Weapon System
3. TM 9-4935-452-14 Guided Missile System Test Set, Guided Missile System, AN/TSM-140A or AN/TSM-140B

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1007: Operate AN/TSM-152 Missile Guidance Set Test Set (MGSTS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on TOW weapon system.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-4935-455-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual for Electrical Circuit Test Set, AN/TSM-158

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1008: Operate TS-3784/TAS Bore sight Collimator Test Set

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on thermal devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-5855-286-14 Test Set, Bore sight Collimator, TS-3784A/TAS

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1009: Operate AN/TAM-5 Amplifier Test Set

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on thermal devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-4935-455-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual for Electrical Circuit Test Set, AN/TSM-158

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1010: Operate AN/USM-615 Direct Support Electronic System Test Set (DSESTS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on M1 Main Battle Tank fire control devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-4931-586-12-1&P Test Set Elec AN/USM-615
2. TM 9-4931-586-12-2&P Test Set Elec AN/USM-615
3. TM 9-4931-586-12-4&P Test Set Elec AN/USM-615

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1011: Operate GPIA-LAV Electronic Systems Test Set

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on LAV fire control devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 10262A-14/2 Tank M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1012: Operate the AN/USM-657 Third Echelon Test Set (TETS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on fire control devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1013: Operate cross-leveling fixture

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

MOS PERFORMING: 2171

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on fire control devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.

3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. SL-3-02220A Fixture Cross Leveling W/E
3. TM 9-254 General Maintenance Procedures for Fire Control Materiel

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1014: Operate Azimuth Test Fixtures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on fire control devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. SL-3-02220A Fixture Cross Leveling W/E
3. TM 02194A-CD U Fixture Azimuth Testing
4. TM 9-254 General Maintenance Procedures for Fire Control Materiel
5. Material safety data sheets for hazardous materials

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1015: Operate PP-8333/U Battery Analyzer-Charger (Christie)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on fire control devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 09591A-12/1 PP-8333/U Battery Analyzer-Charger (CHRISTIE)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1016: Operate TS-4348/UV Electronic Systems Test Set

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on image intensified devices.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 11-5855-299-12&P Test Set, Electronic Systems, TS-4348/UV

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1017: Maintain TOW Weapon System

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 9-1425-450-12 TOW Weapon System Guided Missile System
2. TM 9-1425-450-24P TOW II Weapon System
3. TM 9-1425-450-34-1 Direct Support and General Support Maintenance Manual for TOW 2 Weapon System
4. TM 9-1425-450-34-2 Theory of Operation and Schematic Diagrams for TOW 2 Weapon System
5. TM 9-1425-451-34 TOW 2 Weapon System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCIS: MCI 03.55, The TOW2 Weapon System Crewman.

2171-MAIN-1018: Maintain Improved Target Acquisition System (ITAS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 9-1425-450-12 TOW Weapon System Guided Missile System
2. TM 9-1425-450-24P TOW II Weapon System
3. TM 9-1425-451-34 TOW 2 Weapon System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Mptes. par 16020.

2171-MAIN-1019: Maintain M98A1 Command Launch Unit

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 09397B-12/1 Operator and Organizational Maintenance Manual for Javelin

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1020: Maintain image intensified devices

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 09500A-23&P/2 Night Vision Goggles AN/PVS-7B
2. TM 10271A-23&P/2 Night Vision Device (MNVD) AN/PVS-14
3. TM 11-5855-213-23P Night Vision Sight AN/PVS-4
4. TM 11-5855-214-23&P Night Vision Sight, Crew Served Weapon AN/TVS-5

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Image intensified devices for the LAV series are covered in 2171-MAIN-1031.

2171-MAIN-1021: Maintain thermal sights

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Thermal Sights include AN/PAS-13, AN/PAS-18, AN/TAS-4, and the associated equipment. Thermal sights for the M1A1 Abrams Tank are covered in 2171.02.32. Refer to this task for performance steps and references. Thermal sights for the LAV series are covered in 2171.02.34.

2171-MAIN-1022: Maintain direct view optics

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 9-6650-212-/2 Telescope, Observation, M49
2. TM 9-6650-212-34P Telescope, Observation, M49 W/E

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Direct view optics for the M1A1 Abrams Tank is covered in 2171-MAIN-1029.

2171-MAIN-1023: Maintain M1 series gunners quadrant

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1024: Maintain M2A2 aiming circle

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: Validate equipment serviceability and completion of maintenance inspections and procedures per the references.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.

3. Perform required corrective maintenance.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5 DOD Hazard Communication Program
3. MCO P5090.2A Environmental Compliance and Protection Manual
4. SL-3-00476C M2A2 Aiming Circle
5. TM 00476C-24&P M2A2 Aiming Circle

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-1025: Maintain Towed Artillery Fire Control Systems

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TI-5104-15/2A Spl Handl tritium fire control
2. TM 9-1025-211-20&P Howitzer Med Towed 155MM M198
3. TM 9-1025-211-34 Howitzer Med Towed 155MM M198
4. TM 9-1025-211-34P Howitzer Med Towed 155MM M198 PARTS

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCIs: 08.20D, The M198, 155mm Towed Howitzer.

2171-MAIN-1026: Maintain M1A1 tank fire control system

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. TM 08953A-24/4-2 TANK M1A1 (120MM GUN)
2. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
3. TM 08953A-34P/8 TANK M1A1 (120MM GUN)
4. TM 10262A-14&P/1 Tank M1A1 (120MM GUN)
5. TM 10262A-14/2 Tank M1A1 (120MM GUN)
6. TM 9-4931-586-12-1&P Test Set Elec AN/USM-615
7. TM 9-4931-586-12-2&P Test Set Elec AN/USM-615
8. TM 9-4931-586-12-4&P Test Set Elec AN/USM-615

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCIs: 18.46, Tank Gunnery/Direct Fire Procedures (M1A1).

2171-MAIN-1027: Maintain Light Armored Vehicle (LAV) series Fire Control System

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance and/or administrative forms and records.

REFERENCES:
1. SL-4-8H161B Light Armored Vehicle (LAV)
2. TM 08594-20/3B Light Armored Vehicle (LAV)
3. TM 08594A-34/8 Light Armored Vehicle (LAV)
4. TM 08652B-34/5 Light Armored Vehicle (LAV)
5. TM 10262A-14&P/1 Tank M1A1 (120MM GUN)
6. TM 10262A-14/2 Tank M1A1 (120MM GUN)
7. TM 8H161B-34 Light Armored Vehicle (LAV)
8. TM 9-4931-586-12-1&P Test Set Elec AN/USM-615
9. TM 9-4931-586-12-2&P Test Set Elec AN/USM-615
10. TM 9-4931-586-12-4&P Test Set Elec AN/USM-615

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCIs: MCI 03.41, LAV-25 Gunnery.

2171-MAIN-1028: Maintain laser devices

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. MCO 5104.1B Marine Corps Laser Hazard Control Program
2. MCO 5104.3 Marine Corps Radiation Safety Program

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-OPTS-1029: Analyze optical assemblies/components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given basic optical assemblies/components.

STANDARD: To determine the maintenance or repair requirements of basic optical/components in accordance with the tolerance or specifications.

PERFORMANCE STEPS:
1. Identify the individual optical assemblies/components.
2. Identify the theory of optical assemblies/components.
3. Identify function of optical assemblies/components.
4. Identify serviceability of optical assemblies/components.

REFERENCES:
1. TM 9-258 Elementary Optics and Application to Fire Control Instruments

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2171-OPTS-1030: Follow purge/charge procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a purge device.

STANDARD: To correctly perform basic purge/charge procedures.

PERFORMANCE STEPS:
1. Identify the purge devices.
2. Perform preventive maintenance.
3. Identify purge/charge parameters for equipment being maintained.
4. Operate purge/charge equipment.
5. Complete maintenance/administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals

16005. 2000-LEVEL INDIVIDUAL EVENTS

2171-ADMN-2001: Maintain ground ordnance maintenance-related programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given equipment resources.

STANDARD: To ensure optimum mission support and the use of resources.

PERFORMANCE STEPS:
1. Provide input to local policies and procedures (LPP).
2. Coordinate use of maintenance resources.
3. Coordinate ground ordnance equipment availability.
4. Coordinate ground ordnance supply support program.
5. Maintain ground ordnance maintenance management functions.

REFERENCES:
1. MCBUL 3000 MARES Logistics Reportable Equipment
2. MCO 3000.11C Marine Ground Readiness Reporting
3. MCO P4400.150E W/ERRATUM CH 1-2 Consumer Level Policy Manual
4. MCO P4400.82 MIMMS Controlled Item Management Manual
5. MCO P4790.2 MIMMS Field Procedures Manual
6. MCO P7100.8K Field Budget Guidance Manual
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
8. UM 4400-124 FMF SASSY Using Unit Procedures
9. UM 4400-15 Marine Corps User Manual (Organic Property Control)
10. UM 4790-5 MIMMS AIS, Field Maintenance Procedures
11. UNIT T/O Table of Organization
12. Unit TO/E Table of Organization/Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Current MCIs: MCI 04.14, Ground Maintenance Management Procedures for Supervisors.

2171-ADMN-2002: Maintain Ground Ordnance Maintenance Management programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given electro-optical equipment.

STANDARD: To ensure associated program information and records are maintained properly.

PERFORMANCE STEPS:

1. Determine requirements for maintenance-related programs.
2. Maintain shop modification control program.
3. Maintain shop calibration control program.
4. Maintain new equipment warranty program.
5. Maintain ground ordnance equipment maintenance records and forms.
6. Coordinate repair and return (R&R) program.
7. Submit product quality deficiency reports (PQDR) as required.
8. Submit items for WIR as required.
9. Maintain shop quality control program.
10. Maintain shop publications library.
11. Maintain shop ground ordnance preventive maintenance (PM) program.
12. Maintain shop ground ordnance corrective maintenance (CM) program.
13. Prepare ground ordnance equipment for embarkation.
14. Maintain shop support equipment and tool control program.
15. Maintain Corrosion Prevention and Control (CPAC) program.

REFERENCES:

1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. Applicable Electro Optical Equip material Fielding Plans (MFPS)
3. Applicable Equipment Technical Manuals
4. DOD INST 6050.5 DOD Hazard Communication Program
5. DOD INST 6055.11 Protection of DoD Personnel from Exposure to Radiofrequency Radiation
6. MC (ML) Microfiche
7. MCO 4105.2 Marine Corps Warranty Program
8. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
9. MCO 4855.10 Product Quality Deficiency Report (PQDR)
10. MCO P4400.82 MIMMS Controlled Item Management Manual
11. MCO P4790.2 MIMMS Field Procedures Manual
12. MCO P5215.17 USMC Technical Publications System
13. MCO P5600.31G Marine Corps Publications and Printing Regulations
14. MI STANDARDS FILE xxx
15. NAVMC 2761 Catalog of Publications
16. TI-4710-14/1E Replace and Evac Criteria USMC Equipment
17. TI-4733-15/1 Calibration Requirements
18. UM-PLMS Publications Library Management System
19. UNIT T/O Table of Organization
20. Unit TO/E Table of Organization/Equipment
21. Applicable SL-3

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Current MCIs: MCI 04.14, Ground Maintenance Management Procedures for Supervisors.

2171-ADMN-2003: Maintain electro-optical ordnance training program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a unit annual training plan.

STANDARD: To provide appropriate training progression for subordinates.

PERFORMANCE STEPS:
1. Identify individual training requirements.
2. Plan electro-optical equipment operator and maintenance training program.
3. Conduct Military Occupational Specialty (MOS) training.

REFERENCES:
1. DOD INST 6050.5 DOD Hazard Communication Program
2. DOD INST 6055.11 Protection of DoD Personnel from Exposure to Radiofrequency Radiation
3. MCO 1510.34_ Individual Training Standards System
4. MCO 1510.66 Individual Training Standards (ITS) System for Occupational Field 21 Ordnance, Vol 2- Military Occupational Specialty 2171
5. MCO 3501.7A MCCRES
6. MCO P4790.2 MIMMS Field Procedures Manual
7. MCO P5090.2A Environmental Compliance and Protection Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-ADMN-2004: Maintain ground ordnance repair area

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an order specifying location to be used, list of Table of Equipment (T/E), list of Material Handling Equipment (MHE), and a roster of repair section personnel.

STANDARD: In order to establish and maintain separate areas for work, storage, supply, and hazardous materials.

PERFORMANCE STEPS:
1. Designate shipping and receiving area(s).
2. Designate work area.
3. Designate location of shop office.
4. Designate location of technical library.
5. Designate location of tool storage area.
6. Designate locations of repair jobs, layettes, pre-expended bin, and storage areas for equipment and parts.

REFERENCES:
1. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-ADMN-2005: Maintain compliance with security regulations

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a designated area, controlled/classified equipment or materials for storage.

STANDARD: To ensure classified or controlled materials or equipment are properly secured.

PERFORMANCE STEPS:
1. Maintain physical security of classified information, publications, or records.
2. Maintain physical security of arms and ammunition, explosives (AA&E), and security assets.

REFERENCES:
1. Local Policies/Procedures
2. MCO 4340.1A W/CH 1 Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
3. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
4. MCO 5530.14 Marine Corps Physical Security Program Manual
5. OPNAVINST 5530.13C Physical Security and Loss Prevention
6. OPNAVINST 5530.14 Physical Security and Loss Prevention

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Current MCIS: MCI 21.24, Armory Procedures.

2171-ADMN-2006: Maintain ground ordnance safety program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references.

STANDARD: To ensure a safe maintenance environment through routine training and inspections.

PERFORMANCE STEPS:
1. Identify safety requirements.
2. Inspect maintenance facility for safety-related problems.
3. Assign Safety Noncommissioned Officer (NCO).
4. Conduct safety training.
5. Document training.
6. Conduct internal reviews.
7. Comply with laser safety program.
8. Comply with radiation safety program.
9. Comply with hazardous material/waste program.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. DOD INST 6050.5 DOD Hazard Communication Program
3. DOD INST 6055.11 Protection of DoD Personnel from Exposure to Radiofrequency Radiation
4. DOD INST 6055.8 Occupational Radiation Protection Program
5. Local Policies/Procedures
6. MCO 5100.29 Marine Corps Safety Program w/CH 1
7. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
8. MCO 5104.2 Marine Corps Radiofrequency Electromagnetic Field Personnel Protection Program
9. MCO 5104.3 Marine Corps Radiation Safety Program
10. MCO P5090.2A Environmental Compliance and Protection Manual
11. MCO P5102.1B Navy And Marine Corps Mishap And Safety Investigation Reporting, And Record Keeping Manual
12. OPNAVINST 5100.23G Navy Occupational Safety and Health (SOH) Program Manual
13. TB MED 524 Control of Hazards to Health from Laser Radiation
14. TI 5104-15/1A PROC PUBN IDX RADL SAF AFFAIRS PRGM
15. TI-5104-15/2A Spl Handl tritium fire control
16. TM 9-254 General Maintenance Procedures for Fire Control Materiel
17. UNIT SOP Unit's Standing Operating Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2007: Maintain AN/TAM-3B Night Sight Test Set

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.

2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. TM 9-5855-255-14/24P

2171-MAIN-2008: Maintain AN/TSM-140B TOW Field Test Set (TFTS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 9-1425-451-34 TOW 2 Weapon System
2. TM 9-4935-452-14 Guided Missile System Test Set, Guided Missile System, AN/TSM-140A or AN/TSM-140B
3. TM 9-4935-452-24P Unit, Intermediate and Depot Maintenance Repair Parts and Special Tools for TOW Field Test Set, AN/TSM-140A
4. TM 9-4935-474-14-2-1 Operator, Unit, Direct Support, and General Support Maintenance TOW 2 Subsystem Test Set
5. TM 9999-15/1 ESD Awareness Electro-Static Discharge
6. TM 9999-15/2 Electro-Static Discharge (ESD) Management

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2009: Maintain AN/TSM-152 Missile Guidance Set Test Set (MGSTS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 9-1425-450-34-1 Direct Support and General Support Maintenance Manual for TOW 2 Weapon System
2. TM 9-4935-450-24P TOW II Weapon System
3. TM 9-4935-452-24P Unit, Intermediate and Depot Maintenance Repair Parts and Special Tools for TOW Field Test Set, AN/TSM-140A
4. TM 9-4935-455-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual for Electrical Circuit Test Set, AN/TSM-158

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2010: Maintain TS-3784/TAS Bore sight Collimator Test Set

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 9-5855-286-14 Test Set, Bore sight Collimator, TS-3784A/TAS
2. TM 9-5855-286-24P Test Set, Bore sight Collimator, TS-3784/TAS

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2011: Maintain AN/TAM-5 Amplifier Test Set

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 9-4935-455-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual for Electrical Circuit Test Set, AN/TSM-158
2. TM 9-4935-455-24P Organizational and Intermediate Maintenance Repair Parts and Special Tools List for Amplifier Test Set

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2012: Maintain AN/USM-615 Direct Support Electronic System Test Set (DSESTS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 9-4931-586-12-1&P Test Set Elec AN/USM-615
2. TM 9-4931-586-12-2&P Test Set Elec AN/USM-615
3. TM 9-4931-586-12-4&P Test Set Elec AN/USM-615
4. TM 9-4931-586-30&P Test Set Elect AN/USM-615

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2013: Maintain GPIA-LAV Electronic Systems Test Set

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 10262A-14&P/1 Tank M1A1 (120MM GUN)
2. TM 10262A-14/2 Tank M1A1 (120MM GUN)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCI's: MCI 11.41, Marine Electrician.

2171-MAIN-2014: Maintain AN/USM-657 Third Echelon Test Set (TETS)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2015: Maintain Cross-Leveling Fixture

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. SL-3-02220A Fixture Cross Leveling W/E

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2016: Maintain Azimuth Test Fixture

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. SL-3-02194
2. TM 02194A-CD U Fixture Azimuth Testing

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2017: Operate Straight Tube Telescope Fixture

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly perform required test procedures on direct view optics.

PERFORMANCE STEPS:
1. Perform setup procedures.
2. Perform preventive maintenance.
3. Identify discrepancies/unserviceable parts or components for unit under test.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. TM 9-254 General Maintenance Procedures for Fire Control Materiel

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2018: Maintain Straight Tube Telescope Fixture

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals
2. TM 9-254 General Maintenance Procedures for Fire Control Materiel

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2019: Maintain Electro-Optical Equipment Shelter

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCI's: MCI 11.41, Marine Electrician.

2171-MAIN-2020: Operate AN/USM-674 Huntron

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCI's: MCI 11.41, Marine Electrician.

2171-MAIN-2021: Repair TOW Weapon System Components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Identify discrepancies/unserviceable parts or components.
2. Perform required corrective maintenance.
3. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 9-1425-450-12 TOW Weapon System Guided Missile System
2. TM 9-1425-450-24P TOW II Weapon System
3. TM 9-1425-450-34-1 Direct Support and General Support Maintenance Manual for TOW 2 Weapon System
4. TM 9-1425-450-34-2 Theory of Operation and Schematic Diagrams for TOW 2 Weapon System
5. TM 9-1425-450-L List of Applicable Publications (LOAP) for TOW 2 Heavy Antitank/Assault Weapon System
6. TM 9-1425-451-34 TOW 2 Weapon System
7. TM 9999-15/1 ESD Awareness Electro-Static Discharge

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2022: Repair AN/UAS-12 System Components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Identify discrepancies/unserviceable parts or components.
2. Perform required corrective maintenance.
3. Complete maintenance/administrative forms and records.

REFERENCES:
1. Applicable Equipment Technical Manuals

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2023: Repair Towed Artillery Fire Control System Components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Identify discrepancies/unserviceable parts or components.
2. Perform required corrective maintenance.
3. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI-5104-15/2 Special Handling of Tritium Fire Control Instruments
2. TM 9-1025-211-20&P Howitzer Med Towed 155MM M198
3. TM 9-1025-211-34 Howitzer Med Towed 155MM M198
4. TM 9-1025-211-34P Howitzer Med Towed 155MM M198 PARTS

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCIs: MCI 08.20D, The M198, 155mm Towed Howitzer.

2171-MAIN-2024: Repair M1A1 Tank Fire Control System Components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 08953A-24/4-2 TANK M1A1 (120MM GUN)

2. TM 08953A-34/7-1 TANK M1A1 (120MM GUN)
3. TM 08953A-34P/8 TANK M1A1 (120MM GUN)
4. TM 10262A-14&P/1 Tank M1A1 (120MM GUN)
5. TM 10262A-14/2 Tank M1A1 (120MM GUN)
6. TM 9-4931-586-12-1&P Test Set Elec AN/USM-615
7. TM 9-4931-586-12-2&P Test Set Elec AN/USM-615
8. TM 9-4931-586-12-4&P Test Set Elec AN/USM-615

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCIs: MCI 18.46, Tank Gunnery/Direct Fire Procedures (M1A1).

2171-MAIN-2025: Repair Light Armored Vehicle (LAV) Series Fire Control System Components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. SL-4-8H161B Light Armored Vehicle (LAV)
2. TM 08594A-20/4A Organizational Maintenance, LAV-25 Auto/Hull
3. TM 08594A-34/8 Light Armored Vehicle (LAV)
4. TM 08652A-34/5A Intermediate Maintenance, LAV Anti Tank Turret
5. TM 10262A-14&P/1 Tank M1A1 (120MM GUN)
6. TM 10262A-14/2 Tank M1A1 (120MM GUN)
7. TM 8H161B-34 Light Armored Vehicle (LAV)
8. TM 9-4931-586-12-1&P Test Set Elec AN/USM-615
9. TM 9-4931-586-12-2&P Test Set Elec AN/USM-615
10. TM 9-4931-586-12-4&P Test Set Elec AN/USM-615

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002. Current MCIs: MCI 03.41, LAV-25 Gunnery.

2171-MAIN-2026: Repair Amphibious Assault Vehicle (AAV) Fire Control System Components

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 10004A-25&P/2C Maintenance Instructions and Repair Parts List Organizational, Intermediate, and Depot Upgunned Weapons Station (UGWS) Assault Amphibious Vehicle, Personnel, Model 7A1, AAVP7A1
2. TM 8F419B-35&P AAV

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2027: Repair Mortar Fire Control Systems

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TI-5104-15/2 Special Handling of Tritium Fire Control Instruments
2. TM 1240-34&P M64A1 Sight Unit

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2028: Maintain Bore scope System

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. SL-3-08552A M3 Bore scope
2. TM 9-6650-235-13&P M3 Bore scope

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2029: Maintain Infinity Aiming Reference Collimator

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 04914B-34&P M1A1 infinity aiming reference collimator

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2030: Maintain Shoulder-Launched Multipurpose Assault Weapon (SMAW) Fire Control System

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 08673A-25&P/2A Launcher, Assault Rocket 83MM (SMAW)

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2031: Maintain AN/VLQ-6 Missile Countermeasure Device

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 09842A-12/1 N/VLQ-6 Missile Countermeasure Device
2. TM 09842A-34/2 N/VLQ-6 Missile Countermeasure Device

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

2171-MAIN-2032: Maintain M21 Remote Sensing Chemical Agent Alarm (RSCAAL)

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 12 months

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given required equipment.

STANDARD: To correctly complete maintenance inspections and procedures.

PERFORMANCE STEPS:
1. Perform preventive maintenance.
2. Identify discrepancies/unserviceable parts or components.
3. Perform required corrective maintenance.
4. Complete maintenance/administrative forms and records.

REFERENCES:
1. TM 09870A-10/1 M21 Remote Sensing Chemical Agent Automatic Alarm
2. TM 09870A-23&P/2 M21 Remote Sensing Chemical Agent Automatic Alarm

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 16002.

GROUND ORD MAINT T&R MANUAL

CHAPTER 17

MOS 2181 INDIVIDUAL EVENTS

	PARAGRAPH	PAGE
PURPOSE	17000	17-2
EVENT CODING.	17001	17-2
INDEX OF INDIVIDUAL EVENTS	17002	17-3
2000-LEVEL EVENTS	17003	17-4

CHAPTER 17

MOS 2181 INDIVIDUAL EVENTS

17000. PURPOSE. This chapter contains individual training events for the Ground Ordnance Weapons Chief/Senior Ground Ordnance Weapons Chief.

17001. EVENT CODING. T&R events are coded for ease of reference. Each event has a 4-4-4 digit identifier. The first four digits represent the military occupational field (2181). The second four digits represent the functional or duty area: Administrative Functions (ADMN) and Technical Functions (TECH). The last four digits represent the level, and identifier number of the event. This chapter contains 2000 level events only. Each individual event has an identifier number from 001 to 999.

17002. INDEX OF INDIVIDUAL EVENTS

Event Code	Event	Page
	2000-LEVEL	
2181-ADMN-2001	Establish maintenance management programs	17-4
2181-ADMN-2002	Supervise ground ordnance maintenance resources program	17-4
2181-ADMN-2003	Supervise publications and directives program	17-5
2181-ADMN-2004	Manage MOS training program	17-6
2181-ADMN-2005	Supervise support equipment programs	17-6
2181-ADMN-2006	Supervise supply support programs	17-7
2181-ADMN-2007	Supervise ground ordnance maintenance facilities	17-8
2181-ADMN-2008	Supervise maintenance production schedules	17-8
2181-ADMN-2009	Supervise maintenance related programs	17-9
2181-ADMN-2010	Supervise Preventive Maintenance Checks and Services (PMCS) program	17-10
2181-ADMN-2011	Supervise Corrective Maintenance (CM) program	17-11
2181-ADMN-2012	Supervise equipment modification program	17-11
2181-ADMN-2013	Monitor environmental compliance for ground ordnance equipment	17-12
2181-ADMN-2014	Supervise shop safety program	17-12
2181-ADMN-2015	Supervise embarkation of ground ordnance equipment	17-13
2181-ADMN-2016	Prepare routine correspondence, messages, and reports	17-14
2181-ADMN-2017	Coordinate load test procedures	17-15
2181-ADMN-2018	Supervise physical security of ground ordnance equipment	17-15
2181-ADMN-2019	Assist in the fielding of ground ordnance equipment	17-16
2181-TECH-2020	Monitor unit Arms, Ammunition, & Explosives (AA&E) program	17-16
2181-TECH-2021	Provide technical supervision for the repair of ground ordnance equipment	17-17

17003. 2000-LEVEL INDIVIDUAL EVENTS

2181-ADMN-2001: Establish maintenance management programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure maintenance management programs are efficiently and effectively employed to meet mission requirements.

PERFORMANCE STEPS:
1. Identify mission requirements.
2. Analyze capabilities.
3. Determine resource requirements.
4. Analyze external requirements.
5. Develop procedures to comply with functional areas of maintenance management.
6. Implement maintenance management programs.
7. Supervise maintenance management programs.

REFERENCES:
1. MCBUL 1200 Military Occupational Specialties Manual
2. MCO P4400.150E Consumer Level Policy Manual
3. MCO P4790.2 Marine Integrated Maintenance Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 17020.

2181-ADMN-2002: Supervise ground ordnance maintenance resources program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records, personnel, maintenance facilities, and a budget.

STANDARD: To ensure equipment, facilities and resources are maintained at a state of readiness in order to meet mission requirements.

PERFORMANCE STEPS:
1. Identify available resources.

2. Consolidate time into usable blocks.
3. Assist in conducting T/O&E reviews.
4. Identify personnel strengths and weaknesses to match them against mission requirements.
5. Ensure repair parts and maintenance related supplies are requisitioned when required.
6. Ensure accountability of repair parts and maintenance related supplies.
7. Ensure tools, chests, sets, and TMDE equipment are on hand to support mission requirements.
8. Ensure facilities are available to support the mission.
9. Ensure required publications are on hand to support the mission.
10. Ensure funding is available to support the mission.

REFERENCES:
1. MCDP 4 Logistics
2. MCO 4710.8 Uniform Criteria for Repair Cost Estimated Used to Determine
3. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
4. MCO 5215.1J USMC Directives System
5. MCO P4400.150E Consumer Level Policy Manual
6. MCO P4790.2 Marine Integrated Maintenance Management System
7. MCO P5215.17 USMC Technical Publications System
8. MCO P5600.31G Marine Corps Publications and Printing Regulations
9. MCWP 4-11 Tactical-Level Logistics
10. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 17020.

2181-ADMN-2003: Supervise publications and directives program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure appropriate publications/directives are on hand and current to meet mission requirements.

PERFORMANCE STEPS:
1. Determine publication requirements.
2. Register requirements.
3. Establish control procedures.
4. Maintain the publication control system.
5. Conduct internal reviews.

REFERENCES:
1. MCO 5215.1J USMC Directives System

2. MCO 5600.31 Marine Corps Publications and Printing
3. MCO P4790.2 MIMMS Field Procedures Manual
4. MCO P5215.17 USMC Technical Publications System
5. SL-1-2 Index of Authorized Publication for Equipment Support
6. SL-1-3 Index of Authorized Publication for Equipment Support
7. UM MCPDS Marine Corps Publications Distribution System Users Manual
8. UM-PLMS Publications Library Management System

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 17020.

2181-ADMN-2004: Manage MOS training program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and personnel records.

STANDARD: To ensure MOS training is properly conducted.

PERFORMANCE STEPS:
1. Identify requirements.
2. Identify training resources.
3. Establish the MOS training sustainment matrix.
4. Schedule annual MOS training.
5. Develop lesson plans.
6. Conduct training.
7. Document training.
8. Conduct internal reviews of training plan.

REFERENCES:
1. MCO 1553.3A Marine Corps Unit Training Management
2. MCO P4790.2 MIMMS Field Procedures Manual
3. MCRP 3-0A Unit Training Management Guide
4. MCRP 3-0B How to Conduct Training

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 17020.

2181-ADMN-2005: Supervise support equipment programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure equipment is efficiently and effectively utilized to meet mission requirements.

PERFORMANCE STEPS:
1. Identify requirements.
2. Establish control procedures.
3. Supervise tool control procedures.
4. Supervise calibration procedures.
5. Supervise preventive maintenance for support equipment.
6. Supervise corrective maintenance for support equipment.
7. Conduct internal reviews.

REFERENCES:
1. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
2. MCO P4400.150E Consumer Level Policy Manual
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TI-4733-15/1 Calibration Requirements
5. TI-4733-15/11F Infantry Weapons Gauge Calibration Exchange Program
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: The term support equipment includes but is not limited to tool sets, kits, chests, hoist, jacks, stands, and TMDE equipment. Automated systems include cd-rom and web-based information.

2181-ADMN-2006: Supervise supply support programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure supply support programs are efficiently and effectively employed to meet mission requirements.

PERFORMANCE STEPS:
1. Identify supply requirements.
2. Supervise the accountability for all repair parts.
3. Supervise validation procedures.
4. Supervise reconciliation procedures.
5. Conduct internal reviews.

REFERENCES:
1. MCO 4340.1A Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
2. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
3. MCO P4400.150E Consumer Level Policy Manual
4. MCO P4400.82 MIMMS Controlled Item Management Manual
5. MCO P4790.2 Marine Integrated Maintenance Management System
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
7. UM 4400-124 FMF SASSY Using Unit Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 17020.

2181-ADMN-2007: Supervise ground ordnance maintenance facilities

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure maintenance facilities are efficiently and effectively utilized to meet mission requirements.

PERFORMANCE STEPS:
1. Identify facility requirements.
2. Develop maintenance flow plan.
3. Organize facilities to support mission.
4. Evaluate Operational Risk Management (ORM).
5. Maintain facilities.

REFERENCES:
1. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
3. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-ADMN-2008: Supervise maintenance production schedules

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure maintenance production is accomplished per the mission requirements.

PERFORMANCE STEPS:
1. Determine available resources.
2. Evaluate workload.
3. Consolidate time into usable blocks.
4. Determine production capability.
5. Prioritize workload.
6. Assign work.
7. Ensure quality control procedures.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, par 17020.

2181-ADMN-2009: Supervise maintenance related programs

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure maintenance related programs are efficiently and effectively utilized to meet mission requirements.

PERFORMANCE STEPS:
1. Identify mission requirements.
2. Supervise Product Quality Deficiency Report (PDQR) program.
3. Supervise Corrosion Prevention and Control (CPAC) program.
4. Supervise a Quality Control (QC) program.
5. Supervise unit level execution of Contract Logistic Support (CLS).
6. Supervise execution of equipment warranties.
7. Supervise demilitarization procedures.
8. Supervise Military Awards/Incentives Program.
9. Supervise unit level execution of Depot Level Maintenance Programs.

REFERENCES:
1. DOD DIR 4160.21 Defense Disposal Manual

2. MCO 1650.17F USMC Military Incentive Award Program
3. MCO 3000.11C Marine Ground Readiness Reporting
4. MCO 4105.2 Marine Corps Warranty Program
5. MCO 4733.1 Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
6. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
7. MCO 4855.10 Product Quality Deficiency Report (PQDR)
8. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
9. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
10. MCO P4790.2 MIMMS Field Procedures Manual
11. MCO P4790.3 MIMMS Depot Policy Manual
12. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-ADMN-2010: Supervise Preventive Maintenance Checks and Services (PMCS) program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure preventive maintenance checks and services are accomplished in a timely manner to meet mission requirements.

PERFORMANCE STEPS:
1. Identify PMCS requirements.
2. Identify cyclic maintenance requirements.
3. Identify special maintenance requirements.
4. Identify deferred maintenance requirements.
5. Develop PMCS schedule.
6. Supervise documentation of PMCS program.
7. Supervise Quality Control (QC) procedures for PMCS program.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-ADMN-2011: Supervise Corrective Maintenance (CM) program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure corrective maintenance is properly accomplished to meet mission requirements.

PERFORMANCE STEPS:
1. Identify corrective maintenance requirements.
2. Supervise the prioritization of corrective maintenance requirements.
3. Ensure all applicable maintenance procedures are followed.
4. Monitor progress of corrective maintenance.
5. Ensure quality control procedures are followed.
6. Maintain liaison with external maintenance activities.
7. Ensure all applicable reporting procedures are followed.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-ADMN-2012: Supervise equipment modification program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure equipment modifications are properly accomplished to meet mission requirements.

PERFORMANCE STEPS:
1. Identify equipment modification requirements.
2. Verify equipment configurations.
3. Supervise modifications.
4. Supervise documentation of modifications.

REFERENCES:
1. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
2. MCO P4790.2 MIMMS Field Procedures Manual
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-ADMN-2013: Monitor environmental compliance for ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure environmental compliance procedures are properly observed.

PERFORMANCE STEPS:
1. Determine environmental compliance requirements.
2. Monitor unit environmental compliance with unit representative.
3. Implement corrective actions.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.150E Consumer Level Policy Manual
6. MCO P4790.2 MIMMS Field Procedures Manual
7. MCO P5090.2A Environmental Compliance and Protection Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area of environmental compliance should include but is not limited to the following areas of concern: radiation safety, Hazardous Material (HAZMAT) handling procedures, Depleted Uranium (DU) hazards, Nuclear Regulatory Commission (NRC) Licenses, and Material Safety Data Sheets (MSDS). See administrative Notes, par 17020.

2181-ADMN-2014: Supervise shop safety program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure shop safety practices are properly observed.

PERFORMANCE STEPS:
1. Determine safety program requirements.
2. Monitor compliance with shop safety procedures.
3. Implement corrective actions.

REFERENCES:
1. 29 CFR 1910.1200 Occupational Safety and Health Standards, Hazard Communication
2. MCO 5100.29 Marine Corps Safety Program w/CH 1
3. MCO 5100.8 Marine Corps Occupational Safety and Health (OSH) Policy Order
4. MCO 5104.3 Marine Corps Radiation Safety Program
5. MCO P4400.105 Radioactive Commodities DOD System
6. MCO P4450.12 Storage and Handling of Hazardous Materials
7. MCO P4790.2 MIMMS Field Procedures Manual
8. MCO P5090.2A Environmental Compliance and Protection Manual
9. TB MED 524 Control of Hazards to Health from Laser Radiation

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This area of safety encompasses all aspects of ground safety, which includes but is not limited to the following areas concern: laser safety, Occupational Safety & Health Administration (OSHA) regulations & policies, Material Safety Data Sheets (MSDS), battery rooms, Personal Protective Equipment (PPE), heat conditions, fire protection, medical surveillance programs, and industrial hygiene. See administrative Notes, par 17020.

2181-ADMN-2015: Supervise embarkation of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure that ordnance equipment is properly embarked per the mission requirements.

PERFORMANCE STEPS:
1. Determine embarkation requirements.
2. Ensure that requirements are documented.
3. Supervise coordination with embarkation personnel.
4. Supervise the preparation of equipment for embark.

REFERENCES:
1. MCO 4030.16 Marine Corps Packing and Packing Maintenance of Small Arms
2. MCO 4030.19 Special Provisions
3. MCO 4030.25 Storage and Supply Activities
4. MCO 4030.33 Packaging of Material
5. MCO 4030.36 Marine Corps Packing Manual
6. MCO 4110.2 Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
7. MCO 4400.15 Intermediate Level Supervisor Mgt Policy
8. MCO 4600.25 Transportation and Traffic Management
9. MCO 4600.30 Use of Intermodal Containers, Special Purpose Vans, and Tactical Vehicles
10. MCO 4610.15 Shipment of Military Equipment, Explosives and other Dangerous Articles
11. MCO P4400.150E Consumer Level Policy Manual
12. MCO P4600.14 Transportation Fac Guide Vol 4
13. MCO P4600.19 Commercial Service Plan
14. MCWP 4-1 Logistics Operations

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-ADMN-2016: Prepare routine correspondence, messages, and reports

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure correspondence, messages, and reports are properly completed to meet mission requirements.

PERFORMANCE STEPS:
1. Draft correspondence as required.
2. Draft messages as required.
3. Draft reports as required.
4. Supervise maintenance of files.

REFERENCES:
1. MCO P1070.12 Individual Records Administration Manual (IRAM)
2. MCWP 3-1 Ground Combat Operations
3. SECNAVINST 5216.5 Naval Correspondence Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-ADMN-2017: Coordinate load test procedures

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), and equipment records.

STANDARD: To ensure load testing is properly conducted, certified, and maintained per the mission requirements.

PERFORMANCE STEPS:
1. Identify load-testing requirements.
2. Establish a load test certification schedule.
3. Assist certifying authority
4. Supervise completion of administrative functions.

REFERENCES:
1. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. NAVFAC P-307 Management of Weight Handling Equipment

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-ADMN-2018: Supervise physical security of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment, equipment records and ground ordnance equipment storage facilities.

STANDARD: To ensure ground ordnance equipment is properly safeguarded from theft/tampering.

PERFORMANCE STEPS:
1. Identify security requirements.
2. Review security procedures.
3. Evaluate security compliance of ordnance storage facilities.
4. Assist in arms, ammunition & explosives (AA&E) screenings.
5. Ensure personnel are security trained.
6. Ensure accountability of AA&E.

REFERENCES:
1. MCO 4340.1A Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
2. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
3. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
4. MCO P4400.150E Consumer Level Policy Manual
5. OPNAVINST 5530.14 Physical Security and Loss Prevention

2181-ADMN-2019: Assist in the fielding of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records.

STANDARD: To ensure equipment fielding is supported and properly accomplished to meet mission requirements.

PERFORMANCE STEPS:
1. Validate equipment fielding requirements.
2. Review fielding documents.
3. Assist in fielding plan.
4. Coordinate placement of equipment into service.
5. Monitor compilation of administrative function.
6. Ensure accountability of AA&E.

REFERENCES:
1. MCO 4400.82 MIMMS Controlled Item Management Manual
2. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
3. MCO P4790.2 MIMMS Field Procedures Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-TECH-2020: Monitor unit Arms, Ammunition, & Explosives (AA&E) program

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), equipment records, equipment, and ground ordnance equipment storage facilities.

STANDARD: To ensure security procedures for safeguarding ground ordnance equipment are adhered to.

PERFORMANCE STEPS:
1. Determine security requirements for ordnance equipment on-hand.
2. Validate the established security procedures.
3. Coordinate with local PMO to evaluate the facility for compliance with physical security standards.
4. Ensure security personnel are trained in AA&E procedures.

REFERENCES:
1. MCO 4340.1A Reporting Missing, Lost, Stolen, or Recovered (MLSR) Government Property
2. MCO 5500.6 Arming Of Security and Law Enforcement (LE) Personnel and the Use of Force
3. MCO 8300.1 Marine Corps Serialized Control of Small Arms Systems
4. MCO P4400.150E Consumer Level Policy Manual
5. OPNAVINST 5530.14 Physical Security and Loss Prevention

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See administrative Notes, par 17020.

2181-TECH-2021: Provide technical supervision for the repair of ground ordnance equipment

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL**: 24 months

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given automated systems with internet access, Table of Organization & Equipment (T/O&E), personnel, personnel records, equipment, equipment records, and maintain facilities.

STANDARD: To ensure maintenance of ordnance equipment is properly accomplished to meet mission requirements.

PERFORMANCE STEPS:
1. Identify deficiencies.
2. Identify maintenance solutions.
3. Supervise maintenance.
4. Supervise maintenance personnel.
5. Ensure safety of personnel.
6. Supervise completion of administrative functions.

REFERENCES:
1. MCO P4790.2C MIMMS Field Procedures Manual
2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This task includes ground ordnance weapons, artillery and electro-optical equipment and Universal Needs Statement (UNS). See Administrative Notes, par 17020.

APPENDIX A

REFERENCES

References are doctrinal publications, technical manuals, and other publications upon which Individual or Collective Training Standards and their performance steps are based. They should be readily available and provide the detailed procedures for accomplishing the task. This section includes a list of reference publications and their titles associated with tasks in Ground Ordnance Maintenance Occupational Field.

REFERENCE	TITLE
ANSI Z136.1	Laser Safety Standards
CFR 1910.1200	Occupational Safety and Health Standards, Hazard Communication
DOD 4160.21-M-1	Defense Demilitarization Manual
DOD INST 6050.5	DOD Hazard Communication Program
DOD INST 6055.11	Protection Of DOD Personnel From Exposure To Radiofrequency Radiation and Military Exempt Lasers
FM 11-60	Basic Principles of Direct Current
FM 11-61	Basic Principles of Alternating Current
FM 11-62	Solid State Devices/Solid State Power Supply
FM 11-72	Communications-Electronics Fundamentals
FM 20-22	Recovery Vehicle Operations
FM 23-65	Browning Machinegun, .50-Caliber HB, M2
FM 31-70	Basic Cold Weather Manual
FM 31-71	Northern Operations
FM 31-76	Mountain Operations
FM 5-553	General Drafting
FM 9-243	Use And Care Of Hand Tools And Measuring Tools
FMFM 2-6	MAGTF Rear Area Operations
FMFM 4-3	MAGTF Landing Support Operations
FMFM 6-5	Marine Rifle Squad
FMFM-6	Ground Combat Operations
FMFRP-4-34	Recovery and Battlefield Damage Assessment and Repair
LI 08594A-12/1B	Lubrication Instructions, LAV-25 Turret
LI 08594A-12/2A	Lubrication Instructions, Auto-Hull LAV-25
LI 08650A-12A	Lubrication Instructions, LAV-Command & Control
LI 08651A-12A	Lubrication Instructions, LAV-Recovery
LI 08652A-12/1B	Lubrication Instructions, LAV-Anti-Tank Turret
LI 08652A-12/1C	Lubrication Instructions, LAV-Anti-Tank Auto/Hull
LI 08654A-12	Lubrication Instructions, LAV-Logistics
LI 08655A-12A	Lubrication Instructions, LAV-Mortar

LI 08953A-12	Lubrication Instruction, Tank, Combat, Full-Tracked: 120-mm Gun, M1A1
LI 09999A-12	Lubrication Instructions, LAV-MEWSS
LO 5-5420-202-12	Lubrication Order, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched: Scissoring Type, Class 60
LO 9-1025-211-13	Howitzer, Medium Towed, 155MM M198
LO 9-2350-256-12	Lubrication Order for Recovery Vehicle, Full-Tracked Medium, M88A2
MCBUL 3000	Table of MARES Logistics Reportable Equipment
MCBUL 8011	Class V(W) Materiel Allowances for Training and Security
MCDP 1-3	Tactics
MCDP 4	Logistics
MCI 13.34	Math for Marines
MCI 28.20	Electronics Mathematics for Marines
MCI 28.6	Fundamentals of Digital Logic
MCO 1510.34	Individual Training Standards System (ITSS)
MCO 1510.65B	ITS for Ordnance Maintenance Occfld 21, Vol 1
MCO 1510.66	ITS for Ordnance Maintenance Occfld 21, Vol 2
MCO 1510.67	Individual Training Standards (ITS) System for Ordnance Maintenance Occupational Field 21
MCO 1510.78	ITS for Ammo and Explosives Ordnance Disposal Occfld 23
MCO 1553.2	Management for Marine Corps Formal Schools and Training Centers
MCO 1553.3	Marine Corps Unit Training Management
MCO 1650.17	Marine Corps Military Incentive Awards Program
MCO 3000.11	Marine Corps Automated Readiness Evaluation System
MCO 3501.7	Marine Corps Combat Readiness Evaluation System
MCO 3591.14	Use of Service Weapon in Competition
MCO 4030.16	Marine Corps Packing and Packing Maintenance of Small Arms
MCO 4030.19	Special Provisions
MCO 4030.25	Storage and Supply Activities
MCO 4030.25	Responsibilities for Technical Escort of Dangerous Materials
MCO 4030.33	Packaging of Materiel
MCO 4030.36	Marine Corps Packing Manual
MCO 4105.2	Marine Corps Warranty Program
MCO 4110.2	Management and Execution of Integrated Logistics Support for Ships, Systems and Equipment
MCO 4340.1	Reporting Missing, Lost, Stolen, or Recovered Government
MCO 4340.1	Reporting Of Missing, Lost, Stolen, Or Recovered (MLSR) Government Property
MCO 4400.150	Consumer Level Supply Policy Manual
MCO 4400.16	Uniform Materiel Movement And Issue Priority System
MCO 4400.82	MIMMS Controlled Item Management Manual
MCO 4450.12	Storage And Handling Of Hazardous Materials

MCO 4600.25	Transportation and Traffic Management
MCO 4600.30	Use Of Intermodal Containers, Special Purpose Vans, And Tactical Vehicles
MCO 4610.15	Shipment of Military Equipment, Explosives and other Dangerous Articles
MCO 4710.8	Uniform Criteria for Repair Cost Estimates
MCO 4733.1	Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
MCO 4790.18	Corrosion Prevention and Control (CPAC) Program
MCO 4790.2	MIMMS Field Procedures Manual
MCO 4790.2	NFPA Standards Manual
MCO 4855.10	Product Quality Deficiency Report (PQDR)
MCO 5100.19	Marine Corps Drive Safe Order
MCO 5100.29	Marine Corps Safety Program
MCO 5100.30	Marine Corps Order on Off-duty/Recreation Safety
MCO 5100.8	Marine Corps Ground Occupational Safety and Health (OSH) Program
MCO 5104.1	Marine Corps Laser Hazard Control Program
MCO 5104.1A	Military Exempt Laser Inventory
MCO 5104.2	Marine Corps Radiofrequency Electromagnetic Field Personnel Protection Program
MCO 5104.3	Marine Corps Radiation Safety Program
MCO 5215.1	Marine Corps Directive
MCO 5215.17	The Marine Corps Technical Publications System
MCO 5311.1	Total Force Structure Process (TFSP)
MCO 5500.6	Arming of Security and Law Enforcement Personnel and the Use of Force
MCO 5530.13	Physical Security Instruction For Conventional Arms, Ammunition, And Explosives (AA&E)
MCO 5530.14	Physical Security and Loss Prevention Manual
MCO 5600.31	Marine Corps Publications and Printing
MCO 6260.1	Marine Corps Hearing Conservation Order
MCO 8010.1	Class V(W) Planning Factors For Fleet Marine Force Combat Operations
MCO 8020.10	Safety, Ammunition and Explosives Safety Policies, Programs, Requirements and Procedures for Class V Material
MCO 8025.1	Class V(W) Malfunction and Defect Reporting
MCO 8300.1	Marine Corps Serialized Control of Small Arms System
MCO 8373.2	Auth ALW Maint & Acct Rifle/Pistol
MCO 8400.6	Licensing Procedures for Ordnance Vehicle Operations
MCO P1070.12	Marine Corps Individual Records Administration Man
MCO P11240.106	Garrison Mobile Equipment
MCO P11262.2	Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
MCO P1200.7	MOS Manual
MCO P4400.105	Radioactive Commodities In The DOD Supply Systems

MCO P4400.150	Consumer-Level Supply Policy Manual
MCO P4400.82	MUMMS Controlled Items Management Manual
MCO P4600.14	Containerization Policy
MCO P4610.19	Commercial Service Plan
MCO P4790.1	Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
MCO P4790.2	Marine Corps Integrated Maintenance Management System (MIMMS) Field Procedures Manual
MCO P4790.3	MIMMS Depot Policy Manual
MCO P5090.2	Environmental Compliance and Protection Manual
MCO P5100.8	Marine Corps Occupational Safety and Health Program Manual
MCO P5102.1	Marine Corps Ground Mishap Investigation and Reporting Manual
MCO P5215.1	USMC Directives System
MCO P5215.17	The Marine Corps Technical Publications System
MCO P5530.14	Marine Corps Physical Security Program Manual
MCO P5600.31	Marine Corps Publication Printing Regulations
MCO P7100.8	Field Budget Guidance Manual
MCPEL CD	Marine Corps Publications Electronic Library
MCRP 3-0A	Unit Training Management Guide (FMFM 0-1)
MCRP 3-0B	How to Conduct Training (FMFM 0-1A)
MCRP 3-OA	Unit Training Management
MCRP 3-OB	How to Conduct Training
MCWP 3-1	Ground Combat Operations
MCWP 3-11.3	Scouting and Patrolling
MCWP 4-1	Logistics Operations
MCWP 4-11	Tactical–Level Logistics
MCWP 4-24	Maintenance Operations
MIL-HDBK-61A(SE)	Configuration Management Guidance
MIL-STD-2549	DOD Configuration Management
NAVFAC P307	Management of Weight Handling Equipment
NAVMC 2692	Unit Safety program Management Manual
NAVMC 2706	Apprenticeship Program
NAVMC 2761	Catalog of Publications
OPNAV 4790.2	Naval Aviation Maintenance Program
OPNAVINST 5530.13	Physical Security Instruction For Conventional Arms, Ammunition, And Explosives (AA&E)
OPNAVINST 5530.14	Navy Physical Security Manual
P5600.31	Marine Corps Publications and Printing Regulations
SC 4931-95-CL-J54	Purging Kit, Fire Control
SC 4940-95-CL-B02	Shop Equipment Semi-Trailer Mounted
SC 518-95-CL-AO7	Small Arms Repairer Tool Kit
SECNAVINST 5210.11	Naval Correspondence
SECNAVINST 5214.10	Naval Correspondence
SECNAVINST 5216.5	Department of the Navy Correspondence Manual

SL 1-2	Index of Authorized Publications for Equipment Support
SL 1-3	Index of Authorized Publications for Equipment Support
SL-3 08721A	Tool Kit, Armor LAV-25
SL-3 08723A	Tool Set, F/M242 25mm Cannon
SL-3 08894A	Tool Kit, Organizational Maintenance, 2nd Echelon
SL-3 08895A	Tool Kit, Intermediate Maintenance, LAV
SL-3 08896A	Tool Kit, Maintenance, 4th Echelon, LAV
SL-3 10262A	GPIA LAV Electronics System Test Set
SL-3-00456A	Tool Kit, General Mechanic's
SL-3-00607A	Tool Kit, Small Arms Repairer
SL-3-03533A	Tool Set, Wrench Impact
SL-3-07769B	Recovery Vehicle, Full-Tracked, Medium M88A2
SL-3-07928A	Tool Set, Organizational Maintenance 2nd Echelon, M88A2, Recovery Vehicle, Full-Tracked
SL-3-08121	Test Set, Night Vision Sight AN/TAM-3B
SL-3-08594A	Stock list, LAV-25
SL-3-08940A	Launcher and M60A1 Tank Chassis, Transporting for Bridge, Armored Vehicle Launched (AVLB) Scissoring Type
SL-3-08953A	Tank, Combat, Full-Tracked 120mm Gun, M1A1
SL-3-09561A	Tool Set, M1A1 Tank, Hull, & Turret, 2nd Echelon
SL-3-09590A	Analyzer Set, Vehicular (STE-M1)
SL-3-10025A	Tool Set, Common No. 1, Tactical Vehicles Organizational Maintenance, Second Echelon
SL-4 08594A	Stock list, Repair Parts, LAV-25
SL-4 08650A	Stock list, Repair Parts, LAV-C2
SL-4 08651A	Stock list, Repair Parts, LAV-Recovery
SL-4 08652A	Stock list, Repair Parts, LAV-Anti Tank
SL-4 08653A	Stock list, Repair Parts, LAV-Air Defense
SL-4 08654A	Stock list, Repair Parts, LAV-Logistics
SL-4 08655A	Stock list, Repair Parts, LAV-Mortar
SL-4 09999A	Stock list, Repair Parts, LAV-MEWSS
SL-4-8H161B	Light Armored Vehicle (LAV) Thermal Sight System
TB 9-1000-247-34	Overseas Shipment of Small Arms
TC 0-237	Welding Theory and Application
TI 00526A-25/2B	Match Condition
TI 10340-15/1C	Fuel Requirements, Authorized Fuel for Engine
TI 2320-15/55B	Deadline Criteria
TI 4710-14/1	Recovery and Evacuation Criteria
TI 4731-14/1C	The U.S. Marine Corps Oil Analysis Program
TI 4733-15/1	Calibration Requirements Marine Corps TMDE Calibration and Maintenance Program
TI 4733-15/1	Calibration Requirements Marine Corps TMDE Calibration
TI 4733-15/11	Infantry Weapons Gauge Calibration Exchange Program
TI 5104-15/1	Proc Pub Index RADL SAF Affairs Program
TI 5104-15/2	Special Handling of Tritium Fire Control Instruments

TI 5600-15/7	Publication Information Marine Corps Equipment
TI 8005-24/20	Pre-Fire Inspection Small Arms Weapon Ordnance Material
TI 8005-24/20E	Trigger Weight Measurements and PFI
TI 8005-25/12	Maintenance Sub-Merged Ordnance Combat Vehicle
TM 00526a-10/1	Operations Manual for the MEU(SOC) Pistol
TM 00640A-13	MS, Pullover Gage, Complete (KIT)
TM 00999-23	Recoil Exercise for M198 155mm Howitzer
TM 02498A-23	M2 Gun, Machine
TM 05538C-23	Rifle, 5.56-mm, M16A2 W/E
TM 05539C-23	M40A1 Sniper Rifle 7.26
TM 05539D-24	Sniper Rifle, 7.62 M-40A3
TM 0726678-25	AAV, Command, Model 7A1, AAVC7A1
TM 07267B-10	Assault Amphibious Recovery Vehicle, 7A1
TM 07267B-10A/1A	Operator's Manual, AAVR7A1 Recovery Vehicle
TM 07267B-25	AAV, Recovery Model 7A1 AAVR7A1
TM 07268-10A/1A	Operator's Manual, AAVC7A1 Command Vehicle
TM 08206A-23	Lightweight Company Mortar 60MM, M224
TM 08521A-23	Machine Gun 40MM MK19 MOD 3
TM 08552A-13	Maintenance Manual for Bore scope M3
TM 08579A-12/1	Operator and Organizational Maintenance Instruction
TM 08579A-24P/3A	Modular Universal Laser Equipment
TM 08579A-34/2A	AN/PAQ-3 (MULE) & Fault Isolation Test Set
TM 08594A-10/2B	Operator's Manual, Auto/Hull LAV-25
TM 08594A-10-1C	Operator's Manual, LAV-25 Turret
TM 08594A-20/3A	Light Armored Vehicle (LAV)-25 Turret
TM 08594A-20/3B	Organizational Maintenance, LAV-25 Turret
TM 08594A-20/4A	Organizational Maintenance, LAV-25 Auto/Hull
TM 08594A-34/8	Light Armored Vehicle (LAV)-25 Turret
TM 08594A-34/9	Intermediate Maintenance, LAV-25 Auto/Hull
TM 08650A-20B	Organizational Maintenance, LAV-C2
TM 08650A-34	Intermediate Maintenance, LAV-C2
TM 08651A-10A	Operator's Manual, LAV Recovery
TM 08651A-20B	Organizational Maintenance, LAV-Recovery
TM 08651A-34	Intermediate Maintenance, LAV-Recovery
TM 08652A-10/1A	Operator's Manual, LAV-AT Turret
TM 08652A-10/2A	Operator's Manual, LAV Anti-Tank Auto/Hull
TM 08652A-20/3B	Organizational Maintenance, LAV Anti Tank Turret
TM 08652A-20/4A	Organizational Maintenance, LAV Anti Tank Auto/Hull
TM 08652A-34/5	Intermediate Maintenance, Light Armored Vehicle (LAV) AT Turret
TM 08652A-34/5A	Intermediate Maintenance, LAV Anti Tank Turret
TM 08652A-34/6A	Intermediate Maintenance, LAV Anti Tank Auto/Hull
TM 08653A-10/1	Operator's Manual, LAV-Air Defense
TM 08653A-20	Organizational Maintenance, LAV-Air Defense

TM 08653A-20/2	Organizational Maintenance, LAV Air Defense Auto/Hull
TM 08653A-34/3	Intermediate Maintenance, LAV Air Defense Auto/Hull
TM 08654A-10A	Operator's Manual, LAV Logistics
TM 08654A-20B	Organizational Maintenance, LAV-Logistics
TM 08655A-10A	Operator's Manual, LAV-M
TM 08655A-20B	Organizational Maintenance, LAV-Mortar
TM 08655A-34	Intermediate Maintenance, LAV-Mortar
TM 08671A-23/2A	Machine Gun 5.56MM M249
TM 08672A-20/1	Maintenance Manual, 25mm Auto Chain Gun
TM 08672A-30	Maintenance Manual, 25mm Automatic Chain Gun
TM 08673A-25	Launcher, Assault Rocket 83mm (SMAW)
TM 08911A-12/1	North Finding Module MX-18204/GSQ
TM 08911A-34	North Finding Module MX-18204/GSQ
TM 08953A-10	Operator's Manual, Operator Controls, PMCS, and Operation Under Unusual Conditions for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams, Vols. 1-2
TM 08953A-20-2	Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (Hull), Vols. 1-5
TM 08953A-20-3	Unit Troubleshooting Manual for Tank, Combat, Full-Tracked: 120mm Gun, M1A1 General Abrams (TURRET), Vols. 1-4
TM 08953A-24/4-2	Tank, Combat, M1A1 (Turret)
TM 08953A-24-1	Unit, Intermediate Direct Support and Intermediate General Support Maintenance Manual Systems Schematics for M1A1
TM 08953A-24P-2	Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List for M1A1 Turret
TM 08953A-34/7-1	M1A1 Tank Fire Control
TM 08953A-34	Intermediate Direct Support and Intermediate General Support Maintenance Manual for M1A1 Turret, Vols. 1-2
TM 08953A-34P/8	M1A1 Tank Sighting & Fire Control
TM 09629A-23&P/2A	SASR, .50 Caliber M82
TM 09674A-10/3A	Operator's Manual with Components List, Amphibious Assault Vehicle/FOV
TM 09674A-25&P/2	AAV Special Mission Kits w/Ch 1
TM 09674A-25&P/4	Assault Amphibious Vehicle, 7A1 Family of Vehicles
TM 09688A-24&P	Receiver Infrared, AN/PAS-18
TM 09870A-10/1	Operation Instructions for the Remote Sensing Chemical
TM 09870A-23&P/2	Maintenance Instructions for the Remote Sensing
TM 09922A-23&P/2	81MM Mortar M252
TM 09962A-10/1	Operator's Manual, MK 154 Line Charge
TM 09962A-13&P/2	MK 154 Mine Charge Kit
TM 0999914/1	Organizational Maintenance, LAV-MEWSS
TM 09999A-10/2	Operator's Manual, LAV MEWSS
TM 09999A-14	MEWSS
TM 10004-10	AAV Up-Gunned Weapons Station
TM 10004A-25&P2	AAV Up gunned Weapon Station

TM 1005A-23&P/2A	Pistol Semiautomatic 9MM M9
TM 10152A-24&P	M3P 50 Caliber Machine Gun
TM 10209-10/1	Use and Care of Hand and Measure Tools
TM 10262A-14&P/1	GPIA-LAV Electronic System Test Set
TM 115820-890-10	Operator's Manual, SINCGARS Ground, Combat Net Radio, ICOM
TM 2590/23&P/2	Mine Clearing Blade, Abrams Tank
TM 2590-10/1	Operator's Manual, Blade, Mine Clearing
TM 4700-15/1	Ground Equipment Record Procedures Manual
TM 4795-12/1	Organizational Corrosion Prevention and Control Procedures
TM 4795-12/1	Organizational Corrosion Prevention and Control Procedures.
TM 4795-34	Rust Proofing and Underbody Coating Procedures for Tactical Vehicles
TM 5-5420-202-10	Operator's Manual, Launcher, M60A1 Tank Chassis, Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
TM 5-5420-202-20	Organizational Maintenance Manual for M60A1, AVLB, Armored Vehicle Launcher Bridge, Vols. 1, 2, 3, and 4
TM 5-5420-202-24P	Organizational Maintenance Repair Parts and Special Tools List for M60A1, AVLB, Armored Vehicle Launcher Bridge
TM 5-5420-202-34	Direct Support and General Support Maintenance M60A1 Tank Chassis Transporting: For Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60
TM 5-5420-203-14	Maintenance Manual, Operator's, Unit, Direct Support, and General Support Bridge, Armored-Vehicle-Launched, Scissoring Type; Class 60 and Class 70 Aluminum; 60 Ft Span
TM 5-5420-203-24P	Organizational, Direct Support, and General Support RPSTL for Bridge, Armored-Vehicle-Launched, Scissoring Type, Class 60, Aluminum 60 Ft Span; For Use with M48 & M60 Launched
TM 5-5420-228-24	M60 Tank Chassis, Transporting: For Bridge Armored-Vehicle-Launched Scissoring Type, Class 60
TM 750-116	General Procedures for Purging and Charging of Fire Control Instruments
TM 8F152B-25	AAV Power Plant Assembly
TM 8H161B-20	Light Armored Vehicle (LAV) Thermal Sight System
TM 9-1000-202-14	Evaluation of Cannon Tubes
TM 9-1005-13	Machine Gun Mounts
TM 9-1005-211	Pistol, CA Automatic, M1911A1 w/Holster
TM 9-1005-213-10	Machine Gun, .50-Caliber Browning, M2, Heavy Barrel, Flexible
TM 9-1010-221-24	M203 Grenade Launcher
TM 9-1025-211-10	Organizational Maintenance Manual, Howitzer, Medium, Towed, M198 155MM
TM 9-1025-211-20	Howitzer Med Towed 155mm M198
TM 9-1200-206-34	Intermediate Direct Support and Intermediate General Support Maintenance Manual Vol. 1 of 3 for M1 and M1A1 Sighting and Fire Control
TM 9-1200-206-34	Direct Support and General Support Repair Parts and

	Special Tools List for M1, IPM1, and M1A1 Sighting and Fire Control Components
TM 9-1425-450-12	Tow Weapon System Guided Missile System
TM 9-1425-450-24	Launcher, Tubular Guided Missile
TM 9-1425-450-34	Tow 2 Weapon System M220E4
TM 9-1425-450-L	(LOAP) F/TOW 2 Weapons System
TM 9-1425-451-34	Tow 2 Weapon System Checkout and Troubleshooting
TM 9-207	Oil Analysis Sampling Valve
TM 9-2350-256-10	Operator's Manual, Recovery Vehicle Medium M88A2
TM 9-2350-256-20	Organizational Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A1
TM 9-2350-256-24	Organizational Maintenance Repair Parts and Special Tools List for Recovery Vehicle, Full-Tracked: Medium, M88A2
TM 9-2350-256-34	Direct Support and General Support Maintenance Manual for Recovery Vehicle, Full-Tracked; Medium, M88A2
TM 9-2350-292-10	Operator's Manual for Recovery Vehicle, Heavy,
TM 9-2350-292-20	Unit Maintenance Manual for Recovery Vehicle, Full-Tracked, Heavy, M88A2
TM 9-2350-292-24	Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools
TM 9-237	Welding Theory and Application
TM 9-243	Use and Care of Hand Tools and Measuring Tools
TM 9-254	General Maintenance Procedures for Fire Control Materials
TM 9-2540-205-24	Heaters, Vehicular Compartment
TM 9-258	Application-Fire Control Instruments
TM 9-2835-255-34	Intermediate Direct Support and Intermediate General Support Maintenance Manual, Turbine Engine, Field Service Model AGT 1500
TM 9-3419-224-10	Operators Manual, Saw, Band Metal Cutting
TM 9-4910-571-12	Operator's and Organizational Maintenance Manual
TM 9-4910-741-14	STE M1/FVS
TM 9-4931-586-12	Operations, Maintenance, and Parts Manual for Test Set, Direct Support Electrical System Test Set for AN/USM-615
TM 9-4933-201-15	Pump Kit Hydraulic Oil Gun
TM 9-4933-258-13	Pullover Gage Kit
TM 9-4935-450-24	Shop Equipment, GMS Contact Support Set
TM 9-4935-452-24	Tow Field Test Set, TFTS Test Adapter
TM 9-4935-455-14	Tow 2 Heavy Antitank/Assault Weapons Systems
TM 9-4940-559-14	Shop Equipment, General Purpose Repair Semi-Trailer Mounted, Model SEGPRSM
TM 9-5855-255-24	Night Vision Sight AN/TAM-3/3A/3B
TM 9-6115-542-24	External Auxiliary Power Unit
TM 9-6650-235-13	M3 Bore scope
TM 9999-15/1	Electrostatic Discharge (ESD) Awareness
UM 4400-124	FMF SASSY Using Unit Procedures
UM 4400-15	Organic Property Control Procedures
UM 4790-5	MIMMS AIS Field Maintenance Procedures

UM MCPDS	Marine Corps Publications Distribution System
UM PLMS	Publication Library Management System

ADDITIONAL REFERENCES

Applicable Modification Instructions (MI’s)
Applicable Stock Lists
Applicable Table of Equipment (T/E)
Applicable Table of Organization (T/O)
Applicable Technical Information
Applicable Technical Manuals
Applicable Unit Logistics Support Summary (ULSS)
ATLASS II+ User's Manual
Current ALMARS
Current MARADMINS
DLA Handbook
DMR Build Procedures
Machinist Handbook 26th Edition
Marine Corps Logistics Chain Analysis Team (MCLCAT) Checklist