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From: Commandant of the Marine Corps
To: Distribution List

Subj: GROUND ORDNANCE MAINTENANCE TRAINING AND READINESS MANUAL

Ref: (a) MCO P3500.72A

Encl: (1) GOM T&R Manual

1. Purpose. Per the reference, this Training and Readiness (T&R) Manual, contained in enclosure (1), establishes training standards, regulations, and policies regarding the training of Marines in the Ground Ordnance Maintenance occupational field.

2. Cancellation. NAVMC 3500.33B.

3. Scope. Highlights of the major changes included in this Manual are:

a. Chapter 1 adjusted to reflect current organization of this T&R Manual.

b. Chapter 2 revised to reflect the communities approved and published Marine Corps Tasks.

c. Chapter 3 adjusted the collective events adding 8000 and 7000 level events not previously captured.

d. Chapter 4 modified the events to meet current requirements and eliminate redundancy throughout the manual.

e. Chapters 5 and 6 added events which were previously undocumented.

f. Chapter 7 modified the events to meet current requirements and eliminate redundancy throughout the manual.

g. Chapter 8 modified the events to meet current requirements.

h. Chapter 9 added events which were previously undocumented.

i. Chapter 10 modified the events to meet current requirements.

j. Chapter 11 modified the events to meet current requirements and removed events related to obsolete equipment.

k. Chapter 12 modified the events to meet current requirements and eliminate redundancy throughout the manual.

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l. Chapter 13 modified the events to meet current requirements and to assist the operating force in assessing the readiness of the Main Battle Tank Repairer/Technician.

m. Chapter 14 modified the events to meet current requirements and eliminate redundancy throughout the manual.

n. Chapters 15 and 16 modified the events to meet current requirements.

o. Chapter 17 modified the events to meet current requirements and to capture previously undocumented requirements.

p. Chapter 18 modified the events to meet current requirements.

q. Chapters 3 thru 18 reflect the use of simulators and network simulators that have been leveraged and directed where practical.

4. Information. Commanding General (CG), Training and Education Command (TECOM) will update this T&R Manual as necessary to provide current and relevant training standards to commanders. All questions pertaining to the Marine Corps Ground T&R Program and Unit Training Management should be directed to: CG, TECOM, Marine Air-Ground Task Force Training and Education Standards Division (C 466), 1019 Elliot Road, Quantico, Virginia 22134.

5. Command. This Manual is applicable to the Marine Corps Total Force.

6. Certification. Reviewed and approved this date.


W. F. MULLEN III
By direction

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Encl: (1) Modified Chapter 4 insert to NAVMC 3500.33C
(2) Modified Chapter 6 insert to NAVMC 3500.33C
(3) Modified Chapter 10 insert to NAVMC 3500.33C
(4) Modified Chapter 15 insert to NAVMC 3500.33C
(5) Modified Chapter 18 insert to NAVMC 3500.33C

1. Situation. To transmit modified chapters into the basic Manual.
2. Mission. Changes to enclosed chapters reflect the responsibilities of the non-commissioned officers and staff non-commissioned officers throughout the occupational field.
3. Execution. Remove Chapters 4, 6, 10, 15, and 18, and replace with the corresponding enclosures.
4. Information. This change was a result of coordination between Director, Installation and Logistics Department, Training Command, and operational force commanders to maximize the efficiency of training resources. Additionally, this change accurately reflects the requirements, billet assignments, and the differences of the duties executed between the non-commissioned officers and staff non-commissioned officers within the occupational field.
5. Filing Instructions. This change transmittal will be filed immediately following the signature page of the basic Manual.


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GRDORDMAINT T&R MANUAL

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CHAPTER 1

OVERVIEW

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GRDORDMAINT T&R MANUAL

CHAPTER 1

OVERVIEW

1000. INTRODUCTION

1. The training and readiness (T&R) program is the Corps' primary tool for planning, conducting and evaluating training, and assessing training readiness. Subject matter experts (SME) from the operating forces (OPFOR) developed core capability mission essential task lists (METL) for ground communities derived from the Marine Corps task list. This T&R Manual is built around these METLs and other related Marine Corps tasks (MCT). All events contained in this Manual relate directly to these METLs and MCTs. 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. This T&R Manual contains the collective and individual training requirements to prepare units to accomplish their combat mission. This 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. This 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).

3. This T&R Manual is designed for use by unit commanders to determine pre-deployment training requirements in preparation for training and for formal schools and training detachments to create programs of instruction. This manual focuses on individual and collective tasks performed by OPFOR units and supervised by personnel in the performance of unit mission essential task(s) (MET).

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.

2. Commanders will ensure that all training is focused on their combat mission. Unit training should focus on achieving proficiency in the unit METL. This T&R Manual is a tool to help develop the unit's training plan based on the unit METL, as approved by their higher commander and reported in the Defense Readiness Reporting System (DRRS). Training will support the unit METL and be designed to meet T&R standards. Commanders at all levels are responsible for effective combat training. The conduct of standards based training consistent with Marine Corps T&R standards cannot be over emphasized.

1002. UNIT TRAINING MANAGEMENT

1. Effective unit training management (UTM) focuses the overall organization on development of training plans based on the unit METL and standards-based community T&R events. 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 mission.

2. Unit training management techniques, described in reference (b), (c), and (d) provide commanders with the requisite tools and techniques to analyze, design, develop, implement, and evaluate the training of their unit. To maintain an efficient and effective training program, leaders at every level must understand and implement UTM.

1003. SUSTAINMENT AND EVALUATION OF TRAINING

1. Marines are expected to maintain proficiency in the training events for their military occupational specialty (MOS) at the appropriate grade or billet to which assigned. Leaders are responsible for recording the training achievements of their Marines. For collective or individual training events not executed and evaluated as part of the daily routine, leaders must ensure proficiency is sustained by requiring retraining of each event at or before expiration of the designated sustainment interval.

2. 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). 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.

3. 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.

1004. ORGANIZATION. This Ground Ordnance Maintenance T&R Manual is comprised of 18 chapters and 5 appendices. Chapter 1 is an overview of the ground T&R program. Chapter 2 lists the core METs/MCTs supported by the Community, which are used as part of DRRS. Chapter 3 contains collective events. Chapters 4 through 18 contain individual events specific to a particular MOS and/or billet, as noted. Appendix A contains acronyms; Appendix B contains terms and definitions; Appendix C contains simulation; Appendix D contains MOS Specific Physical Standard; and Appendix E contains Class V(W) requirements for the community.

1005. T&R EVENT CODING

1. Event Code. The event code is an up to 4-4-4 alphanumeric character set:

- a. First up to 4 characters indicate MOS or community (e.g., 0321, 1812 or INTL)
- b. Second up to 4 characters indicate functional or duty area (e.g. DEF, FSPT, MVMT, etc.)
- c. Third 4 characters indicate the unit size and supported unit, if applicable (1000 through 9000), and sequence. Figure 1-1 shows the relationship of unit size to event code. NOTE: The titles for the various echelons are for example only, and are not exclusive. For example: 4000-level events are appropriate for section-level events as noted, but also for squad-level events.

Collective Training Command Element	Collective Training Regiment/Group	Collective Training Battalion/Squadron
9000-level	8000-level	7000-level
Collective Training Company	Collective Training Platoon	Collective Training Squad
6000-level	5000-level	4000-level
Collective Training Team/Section/Crew	Individual Training Skills Progression MOJT, Advanced Level Schools (Core Plus Skills)	Individual Training Entry-Level Formal School Training (Core Skills)
3000-level	2000-level	1000-level

Figure. 1-1 T&R Event Levels

2. Grouping. Categorizing events with the use of a recognizable code makes the type of skill or capability being referenced fairly obvious. Examples include: PAT for patrolling events, DEF for events in the defense, FSPT for events related to fire support, etc. There is no special significance to the functional areas, but they should be intuitive to make it as easy as possible for the T&R user to find events. When organizing this T&R Manual, functional areas are alphabetized then the associated events are numbered. The events will be numbered based upon the introduction of each new functional area, allowing up to "999" events. For example: if there are seven administrative events 4431 occupational field (OccFld), then the events should start 4431-ADMN-1001 and run through 1007. Next, the bulk fuel events, BUFL should start at 4431-BUFL-1001.

3. Sequencing. A numerical code is assigned to each collective (3000-9000 level) or individual (1000-2000 level) training event. The first number identifies the size of the unit performing the event, as depicted in figure 1-1. Exception: Events that relate to staff planning, to conduct of a command operations center, or to staff level decision making processes will be numbered according to the level of the unit to which the staff belongs.

For example: an infantry battalion staff conducting planning for an offensive attack would be labeled as INF-PLAN-7001 even though the entire battalion is not actively involved in the planning of the operation. T&R

event sequence numbers that begin with "9" are reserved for Marine air-ground task force (MAGTF) command element events. An example of event coding is displayed in figure 1-2.

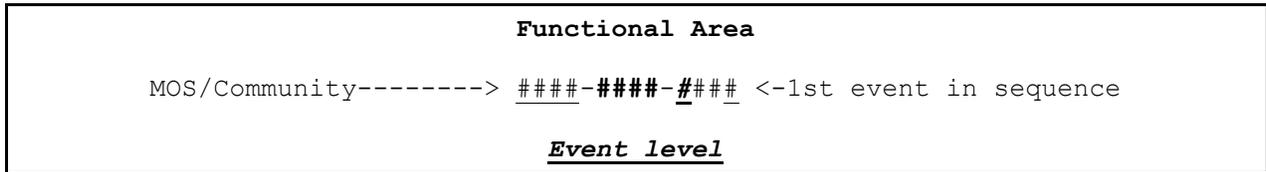


Figure 1-2. T&R Event Coding

1006. T&R EVENT COMPOSITION

1. An event contained within a T&R manual is a collective or individual training standard. This section explains each of the components that make up the T&R event. These items will be included in all of the events in each T&R manual. Community-based T&R manuals may have several additional components not found in unit-based T&R manuals. The event condition, event title (behavior) and event standard should be read together as a grammatical sentence.

2. An example of a collective T&R event is provided in figure 1-3 and an example of an individual T&R event is provided in figure 1-4. Events shown in figures are for illustrative purposes only and are not actual T&R events.

<u>XXXX-XXXX-###</u> : Provide interior guard	
<u>SUPPORTED MET(S)</u> : MCT #.#.#	
<u>EVALUATION CODED</u> : YES/NO	<u>SUSTAINMENT INTERVAL</u> : 12 months
<u>DESCRIPTION</u> : Text	
<u>CONDITION</u> : Text	
<u>STANDARD</u> : Text	
<u>EVENT COMPONENTS</u> :	
1. Event component.	
2. Event component.	
3. Event component.	
<u>REFERENCES</u> :	
1. Reference	
2. Reference	
3. Reference	
<u>PREREQUISITE EVENTS</u> :	
XXXX-XXXX-###	XXXX-XXXX-###
<u>INTERNAL SUPPORTED</u> :	
XXXX-XXXX-###	XXXX-XXXX-###
<u>INTERNAL SUPPORTING</u> :	

```
XXXX-XXXX-####          XXXX-XXXX-####  
  
SUPPORT REQUIREMENTS:  
  
  EQUIPMENT:   XXX  
  
MISCELLANEOUS:  XXX  
  
  ADMINISTRATIVE INSTRUCTIONS:  XXX
```

Figure 1-3. Example of a Collective T&R Event

```
XXXX-XXXX-####:  Stand a sentry post  
  
EVALUATION CODED:  NO          SUSTAINMENT INTERVAL:  12 months  
  
DESCRIPTION:  Text  
  
MOS PERFORMING:  ####, ####  
  
INITIAL TRAINING SETTING:  XXX  
  
CONDITION:  Text  
  
STANDARD:  Text  
  
PERFORMANCE STEPS:  
1.  Event component.  
2.  Event component.  
3.  Event component.  
  
REFERENCES:  
1.  Reference  
2.  Reference  
3.  Reference  
  
PREREQUISITE EVENTS:  
XXXX-XXXX-####          XXXX-XXXX-####  
  
INTERNAL SUPPORTED:  
XXXX-XXXX-####          XXXX-XXXX-####  
  
INTERNAL SUPPORTING:  
XXXX-XXXX-####          XXXX-XXXX-####  
  
SUPPORT REQUIREMENTS:  
  
  EQUIPMENT:   XXX  
  
MISCELLANEOUS:  XXX  
  
  ADMINISTRATIVE INSTRUCTIONS:  XXX
```

Figure 1-4. Example of an Individual Event

1. Event Code. The event code is explained in paragraph 1005.

2. Title. The name of the event. The event title contains one action verb and one object.
3. Evaluation-Coded (E-Coded). Collective events categorize the capabilities that a given unit may be expected to perform. There are some collective events that the Marine Corps has determined that a unit MUST be able to perform, if that unit is to be considered fully ready for operations. These E-Coded events represent the irreducible minimum or the floor of readiness for a unit. These E-Coded events are derived from the training measures of effectiveness (MOE) for the METs for units that must report readiness in DRRS. It would seem intuitive that most E-Coded events would be for battalion sized units and higher since those are the units that report in DRRS. However, if the Marine Corps has determined that the readiness of a subordinate, supporting unit to accomplish a particular collective event is vital to the accomplishment of the supported unit's MET, then that lower echelon collective event is E-Coded.
4. Supported MET(s). List all METs that are supported by the training event in the judgment of the OccFld drafting the T&R manual, even if those events are not listed as MOE in a MET.
5. Sustainment Interval. It is critical to understand the intent of the sustainment interval so training time is not wasted with duplicated training. Sustainment interval is expressed in number of months. Most individual T&R events and many lower level collective events are never out of sustainment because they are either part of a Marine's daily routine, or are frequently executed within the sustainment interval. Sustainment interval is relevant when an individual or collective event is not observed and evaluated within the sustainment period, has atrophied, and therefore retraining and evaluation is required.
6. Billet/MOS. Each individual training event will contain a billet code and/or MOS that designates who is responsible for performing that event and any corresponding formal course required for that billet. Each commander has the flexibility to shift responsibilities based on the organization of his command. These codes are based on recommendations from the collective subject matter expertise that developed this manual and are listed for each event.
7. Grade. The grade field indicates the rank at which Marines are required to complete the event.
8. Description. This field allows T&R developers to include an explanation of event purpose, objectives, goals, and requirements. It is a general description of an action requiring learned skills and knowledge, i.e., engage fixed target with crew-served weapons. This is an optional field for individual events but is required for collective events. This field can be of great value guiding a formal school or OPFOR unit trying to discern the intent behind an event that might not be readily apparent.
9. Condition. Condition refers to the constraints that may affect event performance in a real-world environment. It indicates what is provided (equipment, tools, materials, manuals, aids, etc.), environmental constraints or conditions under which the task is to be performed, and any specific cues or indicators to which the performer must respond. Commanders can modify the conditions of the event to best prepare their Marines to accomplish the assigned mission (e.g. in a desert environment; in a mountain environment;

etc.). When resources or safety requirements limit the conditions, this should be stated. The content of the condition should be included in the event on a "by exception" basis. If there exists an assumption regarding the conditions under which all or most of the events in the manual will be performed, then only those additional or exceptional items required should be listed in the condition. The common conditions under which all the events in a chapter will be executed will be listed as a separate paragraph at the beginning of the chapter.

10. Standard. The performance standard indicates the basis for judging the 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 must be strictly adhered to. The standard for collective events will likely be general, describing the desired end-state or purpose of the event. The standard for individual events will be objective, quantifiable, and readily observable. Standards will more specifically describe to what proficiency level, specified in terms of accuracy, completeness, time required, and sequencing the event is to be accomplished. These guidelines can be summarized in the acronym "ACTS" (Accuracy Completeness Time Sequence). In no cases will "per the reference" or "per/in accordance with commander's intent" be used as a stand-alone standard.

11. Event Components/Performance Steps. Description of the actions that the event is composed of, or a list of subordinate, included T&R event and event descriptions. The event components help the user determine what must be accomplished and the proper sequence of execution of subordinate events. Event components are used for collective events; performance steps are used for individual events.

a. The event components and performance steps will be consciously written so that they may be employed as performance evaluation check lists by the OPFORs. They must be sequenced to demonstrate the building block approach to training.

b. Event components may be events one individual in the unit performs, events that small groups in the unit perform, or events involving the entire unit.

12. Chained Events. Enables unit leaders to effectively identify prerequisite, supporting, and supported events that ultimately support MCTs/METs. Supported events are chained to supporting events to enable the accomplishment of the supported event to standard and therefore are considered "chained". The completion of identified supported events can be utilized to update sustainment interval credit for supporting events, based on the assessment of the commander.

13. 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.

14. Supported Event. An event whose performance is inherently supported by the performance of one or more supporting events. A supported event will be classified as internal supported if it has been developed specifically for

the community. A supported event that has been chained to an event from an external community T&R will be classified as external supported.

15. Supporting Event. An event whose performance inherently supports the performance of a supported event. A supporting event will be classified as internal supporting if it has been developed specifically for the community. A supporting event that has been chained to a community event from an external community T&R will be classified as external supporting.

16. Initial Training Setting. All individual events will designate the setting at which the skill is first taught, either formally, Marine on the Job Training (MOJT) within the OPFOR, or via a distance learning product (DL).

17. References. The training references shall be utilized to determine task performance steps. They assist the trainee in satisfying the performance standards, or the trainer in evaluating the effectiveness of task completion. T&R manuals are designed to be a training outline, not to replicate or replace doctrinal publications, reference publications or technical manuals. References are key to developing detailed lesson plans, determining grading criteria, and ensuring standardization of training. For individual events only one authoritative reference is required.

18. Distance Learning Products. Distance learning products include: Individual multimedia instruction, computer-based training, MarineNet, etc. This notation is included when, in the opinion of the T&R manual group charter in consultation with the MAGTF T&R Standards Division representative, the event can be taught via one of these media vice attending a formal course of instruction or receiving MOJT.

19. Support Requirements. This is a list of the external and internal support the unit and Marines will need to complete the event. This is a key section in the overall T&R effort, as resources will eventually be tied directly to the training towards METS. Future efforts to attain and allocate resources will be based on the requirements outlined in the T&R manual. The list includes, but is not limited to:

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

The ordnance requirements for one year of training for the events in the T&R will be aggregated into a table contained in an appendix to the T&R. The task analyst and the OccFld representatives will be careful not to "double count" ammunition that might be employed in the performance of collective and individual events that are chained.

20. Suitability of Simulation/Simulators/DL products. The following "Suitability and Sequence" codes listed in figure 1-5 have been developed to communicate characteristics for employing simulations during training. Units of measure have been assigned based on the amount of time it takes a Marine or unit to train to task utilizing a particular simulator. Suitability and sequence codes are captured in the event title in a parenthetical remark, as well as within the simulation field of the T&R event. The simulation field

also identifies the type of simulation, units of measure, and any other pertinent information.

Code	Requirement
L	The event can only be trained to standard in a Live environment. Any event assessed as "NO" for Simulatable was coded "L."
P	The event must be performed to standard in simulator as a PREREQUISITE to live fire qualification as per current doctrine, policy, or T&R manual.
S/L	Event must be trained to standard in simulation then live unless simulation capacity is not available, then live only training is appropriate.
L/S	Event must be trained to standard in a live environment then simulation unless simulation capacity is not available, then live only training is appropriate.
S	Event can ONLY be conducted to standard and qualification in simulator.

Figure 1-5. Suitability and sequence codes

a. Training simulation capabilities offer an opportunity to build and sustain proficiency while achieving and/or maintaining certain economies.

Commanders should take into consideration simulation tools as a matter of course when designing training.

b. Simulation Terms:

(1) Simulation: A model of a system animated discretely or continuously over a period of time. A simulation may be closed-loop (i.e., it executes based in initial inputs without human intervention), or it may be open-loop (i.e., human input to alter the variables in the system during execution is allowed). A simulation is an approximation of how the modeled system will behave over time. Simulations are constructed based on verified and validated mathematical models of actual systems. Simulations can be very simple or complex depending on the degree of fidelity and resolution needed to understand the behavior of a system.

(2) Simulator: A simulator is the physical apparatus employed as the interface for humans to interact with a model or observe its output. A simulator has input controls and outputs in the form of human sensory stimuli (visual, auditory, olfactory, tactile/haptic, and taste). For instance, some of the features of the vehicle cab (the seat, steering wheel, turn signals, accelerator pedal, brakes, and windshield) and projection screen. Both the vehicle cab and projection screen are the interface by which a human being interacts with the simulated environment of a driving a vehicle and observe the outputs of the mathematical models of vehicle dynamics.

(3) Model: A mathematical representation of the behavior (i.e., shows the behavior of projectiles, combat simulations, etc.) of a system at a distinct point in time.

(4) Live: Real people operates real systems to include both live people operating real platforms or systems on a training range and battle staffs from joint, component or service tactical headquarters using real world command and control systems.

(5) Virtual: Real people operating simulated systems. Virtual simulations inject humans-in-the-loop in a central role by exercising motor control skills (e.g., flying an air platform simulator, engaging targets in indoor simulated marksmanship trainer), decision skills, and/or communication skills.

(6) Constructive: Models and simulations that involve simulated people operating simulated systems (i.e., MAGTF Tactical Warfare Simulation). Real people make inputs to such simulations, but are not involved in determining the outcomes.

(7) Live, Virtual and Constructive (LVC) Training Environment: Defined by combining any of the three training domains LVC to create a common operational environment, by which units can interact across LVC domains as though they are physically located in the same operational environment.

(8) Distance Learning: Any instruction and evaluation provided through a variety of DL delivery systems (i.e., MarineNet) where the students and instructors are separated by time and/or location.

c. Figure 1-6 depicts an event title with simulation code and simulation and/or simulators that can be used, as displayed within a T&R event.

<u>XXXX-XXX-XXXX</u> : Call for indirect fire using the grid method (L/S)					
<u>SUPPORT REQUIREMENTS</u> :					
<u>SIMULATION EVALUATION</u> :					
<u>SIMULATED</u>	<u>SUITABILITY</u>	<u>SIMULATOR</u>	<u>UNIT OF MEASURE</u>	<u>HOURS</u>	<u>PM</u>
Yes	L/S	ODS	Marine Hours	12	Y

Figure 1-6. Example of simulation/simulators displayed within a T&R event

21. Miscellaneous

a. This field provides space for any additional information that will assist in the planning and execution of the event. Units and formal learning centers are cautioned not to disregard this information or to consider the information of lesser importance than what is contained in other parts of the T&R event. Miscellaneous fields provide an opportunity for the drafters of the T&R event to communicate vital information that might not fit neatly into any other available field. The list may include, but is not limited to:

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

1007. COMBAT READINESS PERCENTAGE (CRP)

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 is the percentage of required training events that a unit or Marine accomplishes within specified sustainment intervals.

3. Unit combat readiness is assessed as a percentage of the successfully completed and current (within sustainment interval) key training events called E-Coded Events. E-Coded events and unit CRP calculation are described in follow-on paragraphs. The CRP achieved through the completion of E-Coded Events is directly relevant to readiness assessment in DRRS.

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. E-Coded collective events are 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. The 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 four 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: $325 \text{ (total MET CRP)} / 5 \text{ (total number of METS)} = 65\%$

3. Combat readiness percentage is a valuable tool to assist commanders in readiness reporting by providing objective data to support and inform their subjective assessment.

1009. CHEMICAL BIOLOGICAL RADIOLOGICAL NUCLEAR TRAINING

1. All personnel assigned to the OPFOR must be trained in chemical, biological, radiological, and nuclear (CBRN) defense 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 CBRN attacks. Basic operating standards are those that the individual, and collectively the unit, must perform to continue operations in a CBRN environment.

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

1010. NIGHT TRAINING

1. While it is understood that all personnel and units of the OPFOR are capable of performing their assigned mission in "every clime 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 the availability of equipment and personnel.

1011. RISK MANAGEMENT (RM)

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

2. All leaders and Marines will integrate RM in the planning process and implement hazard controls to reduce risk to acceptable levels. Applying the RM process will reduce mishaps, injuries, and damage they cause, thereby increasing both individual performance and unit readiness. Risk management assists the commander in avoiding unnecessary risk, determining the balance between training realism and unnecessary risks in training, making an informed decision to implement a course of action, identifying feasible and effective control measures, adjusting training plans to fit the level of proficiency and experience of Marines/Sailors, and providing reasonable alternatives for mission accomplishment.

3. Specifically, commanders are required to implement and document deliberate RM in the planning and execution of all training evolutions and

activities. Furthermore, the authority to approve or accept risk assessment code (RAC) 1 or 2 hazards will not be delegated below lieutenant colonel (O5). Further guidance for RM is found in Marine Corps Order 3500.27_.

1012. IMPROVISED EXPLOSIVE TRAINING

1. Improvised explosive device (IED) threat impacts all elements of the MAGTF and all Marines regardless of MOS, location, or operational environment. The ability to effectively operate and survive in environments with an IED threat is critical to force protection, maintaining combat effectiveness, and mission accomplishment.

2. Per Marine Corps policy on organizing, training, and equipping for operations in an IED environment (MCO 3502.9), Marines must be capable of not only accomplishing their assigned mission, but also accomplishing their mission in environments with an IED threat. Counter-improvised explosive device (C-IED) training must be integrated into the unit training plan in order-to ensure personnel assigned to the OPFOR train and maintain proficiency in C-IED tactics, techniques, and procedures.

GRDORDMAINT T&R MANUAL

CHAPTER 2

MARINE CORPS TASKS

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GROUND ORDNANCE MAINTENANCE	2001	2-2

GRDORDMAINT T&R MANUAL

CHAPTER 2

MARINE CORPS TASKS

2000. GROUND ORDNANCE MAINTENANCE MET-SUPPORTING E-CODED EVENTS. The Ground Ordnance Maintenance MET-Supporting E-coded Events table lists the E-coded collective T&R events that support the core METs for the community. These E-coded T&R events form the basis for unit readiness planning per reference identifying subordinate collective and individual training events through the supporting/chained relationships described in each event.

2001. GROUND ORDNANCE MAINTENANCE

MCT 4.2.2 Conduct Ground Equipment Maintenance	
ORD-ADMN-3001	Provide maintenance administration support for field level ground ordnance equipment
ORD-LIC-7001	Manage a ground ordnance licensing program
ORD-MAIN-3001	Conduct maintenance operations for field level ground ordnance equipment
ORD-MAIN-5001	Employ maintenance teams in support of field level ground ordnance equipment
ORD-MAIN-6001	Coordinate maintenance operations actions for field level ground ordnance equipment
ORD-MAIN-7001	Manage maintenance operations actions for field level ground ordnance equipment
ORD-MAIN-8001	Direct maintenance operations actions for field level ground ordnance equipment
ORD-OPS-5001	Employ ground ordnance maintenance activities
ORD-OPS-6001	Coordinate employment of ground ordnance maintenance activities
ORD-OPS-7001	Manage employment of ground ordnance maintenance activities
ORD-OPS-8001	Direct employment of ground ordnance maintenance activities
ORD-VREC-3001	Conduct ground ordnance maintenance recovery
ORD-VREC-5001	Employ ground ordnance maintenance recovery teams
ORD-VREC-6001	Coordinate ground ordnance maintenance recovery operations
ORD-VREC-7001	Manage ground ordnance maintenance recovery operations (L/S)
ORD-VREC-8001	Direct ground ordnance maintenance recovery operations (L/S)
MCT 4.2.2.8 Conduct Recovery and Evacuation Operations	
ORD-ADMN-3001	Provide maintenance administration support for field level ground ordnance equipment
ORD-LIC-7001	Manage a ground ordnance licensing program
ORD-VREC-3001	Conduct ground ordnance maintenance recovery
ORD-VREC-5001	Employ ground ordnance maintenance recovery teams
ORD-VREC-6001	Coordinate ground ordnance maintenance recovery operations
ORD-VREC-7001	Manage ground ordnance maintenance recovery operations (L/S)
ORD-VREC-8001	Direct ground ordnance maintenance recovery operations

	(L/S)
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GRDORDMAINT T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

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GRDORDMAINT T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

3000. PURPOSE. Chapter 3 contains collective training events for the Ground Ordnance Maintenance Community.

3001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
ORD	Ordnance

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
ADMN	Administration
LIC	Licensing
MAIN	Maintenance
OPS	Operations
VREC	Vehicle Recovery

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
3000	Crew/Team Level
5000	Platoon Level
6000	Company Level
7000	Battalion Level
8000	Regiment Level

3002. INDEX OF 3000-LEVEL COLLECTIVE EVENTS

Event Code	E-Coded	Event	Page
ORD-ADMN-3001	NO	Provide maintenance administration support for field level ground ordnance equipment	3-3
ORD-MAIN-3001	NO	Conduct maintenance operations for field level ground ordnance equipment	3-4
ORD-VREC-3001	NO	Conduct ground ordnance maintenance recovery	3-5

ORD-MAIN-8001	ORD-OPS-5001	ORD-OPS-6001
ORD-OPS-7001	ORD-OPS-8001	ORD-VREC-5001
ORD-VREC-6001	ORD-VREC-7001	ORD-VREC-8001

ORD-MAIN-3001: Conduct maintenance operations for field level ground ordnance equipment

SUPPORTED MET (S): MCT 4.2.2

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

READINESS-CODED: NO

DESCRIPTION: Consists of teams made up of personnel that are capable of conducting key elements of ground ordnance maintenance support for organizational and intermediate tasks. The maintenance teams consist of skillfully trained ground ordnance maintenance repairers and technicians with tools, test equipment, technical publications, and repair parts required to manage limited maintenance operations within designated operations.

CONDITION: Given higher headquarters operation order, a TO&E, access to automated systems and commander's guidance.

STANDARD: To restore or retain materiel in serviceable or operational condition.

EVENT COMPONENTS:

1. Analyze the requirement(s).
2. Determine required resources.
3. Perform pre-operations checks.
4. Receive orders.
5. Execute maintenance missions.
6. Evacuate equipment assets, as needed.
7. Conduct de-briefs, as required.
8. Maintain communications with supported elements.

REFERENCES:

1. MCO 4400.150 Consumer-Level Supply Policy
2. MCO 4400.16_ Uniform Material Movement and Issue Priority System (UMMIPS)
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
5. MCO 7300.21_ Marine Corps Financial Management Standard Operating Procedure Manual
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
7. MCTP 3-40B Tactical-Level Logistics
8. MCTP 3-40C Operational-Level Logistics
9. MCTP 3-40E Maintenance Operations
10. MCTP 3-40H MAGTF Supply Operations
11. MCTP 8-10B How to Conduct Training
12. MCWP 3-40_ MAGTF Logistics Operations
13. MSTP PAM 4-0.2 A Logistics Planner's Guide
14. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide
15. MSTP PAM 5-0.3 MAGTF Planner's Reference Manual

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-MAIN-5001

ORD-VREC-3001: Conduct ground ordnance maintenance recovery

SUPPORTED MET(S):

MCT 4.2.2 MCT 4.2.2.8

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

READINESS-CODED: NO

DESCRIPTION: Consists of contact teams made up of personnel that are capable of conducting recovery operations and/or disposal of equipment for the following types of recovery, but not limited to: self-recovery, dedicated recovery, and land or water recovery.

CONDITION: Given a TO&E, and a FRAGO.

STANDARD: To return disabled equipment assets to a collection point, recover salvageable parts and components, or destroy material.

EVENT COMPONENTS:

1. Verify mission requirements.
2. Conduct equipment checks.
3. Verify collection points/main supply routes.
4. Develop recovery ORM.
5. Receive orders.
6. Execute recovery missions.
7. Reconnoiter area.
8. Estimate situation(s).
9. Determine COAs.
10. Conduct Battle Damage Assessment and Repair (BDAR), if applicable.
11. Destroy or render ineffective all equipment, all sensitive items and weapons if determined unsalvageable.
12. Report the status of equipment, as required.
13. Maintain communications with supported elements.

REFERENCES:

1. FM 9-43-2 Recovery and Battlefield Damage Assessment and Repair
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
4. MCTP 3-40B Tactical-Level Logistics
5. MCTP 3-40C Operational-Level Logistics
6. MCTP 3-40E Maintenance Operations
7. MCWP 3-40_ MAGTF Logistics Operations
8. MCWP 5-10 Marine Corps Planning Process
9. MSTP PAM 4-0.2 A Logistics Planner's Guide
10. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-VREC-5001

3004. INDEX OF 5000-LEVEL COLLECTIVE EVENTS

Event Code	E-Coded	Event	Page
ORD-MAIN-5001	NO	Employ maintenance teams in support of field level ground ordnance equipment	3-6
ORD-OPS-5001	NO	Employ ground ordnance maintenance activities	3-7
ORD-VREC-5001	NO	Employ ground ordnance maintenance recovery teams	3-8

3005. 5000-LEVEL COLLECTIVE EVENTS

ORD-MAIN-5001: Employ maintenance teams in support of field level ground ordnance equipment

SUPPORTED MET(S): MCT 4.2.2

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

READINESS-CODED: NO

DESCRIPTION: Consists of employing maintenance teams made up of personnel that are capable of conducting key elements of ground ordnance maintenance support for organizational and intermediate tasks. The maintenance teams consist of skillfully trained ground ordnance maintenance repairers and technicians with tools, test equipment, technical publications, and repair parts required to manage limited maintenance operations within designated operations.

CONDITION: Given higher headquarters operation order, a TO&E, access to automated systems and commander's guidance.

STANDARD: To restore or retain materiel, increasing equipment availability, and reducing losses of equipment assets.

EVENT COMPONENTS:

1. Coordinate with supported unit(s).
2. Determine maintenance support requirement(s).
3. Determine personnel requirements.
4. Conduct equipment checks.
5. Execute maintenance team actions, as required.
6. Report the status of equipment, as required.
7. Maintain communications with supported elements.
8. Submit required reports.

REFERENCES:

1. MCO 4400.150 Consumer-Level Supply Policy
2. MCO 4400.16_ Uniform Material Movement and Issue Priority System (UMMIPS)
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
5. MCO 7300.21_ Marine Corps Financial Management Standard Operating

- Procedure Manual
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
 7. MCTP 3-40B Tactical-Level Logistics
 8. MCTP 3-40C Operational-Level Logistics
 9. MCTP 3-40E Maintenance Operations
 10. MCTP 3-40H MAGTF Supply Operations
 11. MCTP 8-10B How to Conduct Training
 12. MCWP 3-40 MAGTF Logistics Operations
 13. MSTP PAM 4-0.2 A Logistics Planner's Guide
 14. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide
 15. MSTP PAM 5-0.3 MAGTF Planner's Reference Manual

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-MAIN-6001

INTERNAL SUPPORTING EVENTS:
ORD-MAIN-3001 ORD-VREC-3001

ORD-OPS-5001: Employ ground ordnance maintenance activities

SUPPORTED MET(S): MCT 4.2.2

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

READINESS-CODED: NO

DESCRIPTION: Employment of ground ordnance maintenance operations consists of implementing HHQ plans for operational maintenance and maintenance management requirements, involving inspection and classification, servicing and repair, modification, rebuilding and overhaul, and recovery and evacuation of ground ordnance maintenance operations.

CONDITION: Given a TO&E, access to automated systems and a FRAGO.

STANDARD: To coordinate and integrate ground ordnance maintenance efforts, and implement internal control procedures.

EVENT COMPONENTS:

1. Review organic equipment embarkation/debarkation load plans.
2. Execute deployment/redeployment of a ground ordnance maintenance activities.
3. Inspect load reconfigurations, as needed.
4. Report to established Unit Movement Control Centers, as needed.
5. Coordinate movements of maintenance contact teams.
6. Maintain communication with supporting Higher, Adjacent, Subordinate, and Supporting (HASS).
7. Receive de-briefs, as required.
8. Submit after action reports, as required.

REFERENCES:

1. MCO 4400.150 Consumer-Level Supply Policy
2. MCO 4400.16 Uniform Material Movement and Issue Priority System (UMMIPS)
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps

4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
5. MCO 7300.21_ Marine Corps Financial Management Standard Operating Procedure Manual
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
7. MCTP 3-40B Tactical-Level Logistics
8. MCTP 3-40C Operational-Level Logistics
9. MCTP 3-40E Maintenance Operations
10. MCTP 3-40H MAGTF Supply Operations
11. MCTP 8-10B How to Conduct Training
12. MCWP 4-1 MCWP 4-1 Logistics Operations
13. MSTP PAM 4-0.2 A Logistics Planner's Guide
14. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide
15. MSTP PAM 5-0.3 MAGTF Planner's Reference Manual

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-OPS-6001

INTERNAL SUPPORTING EVENTS:
ORD-MAIN-3001 ORD-VREC-3001

ORD-VREC-5001: Employ ground ordnance maintenance recovery teams

SUPPORTED MET(S):

MCT 4.2.2 MCT 4.2.2.8

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

READINESS-CODED: NO

DESCRIPTION: Consists of employing contact teams made up of personnel that are capable of conducting recovery operations and/or disposal of equipment for the following types of recovery, but not limited to: self-recovery, dedicated recovery, and land or water recovery within designated operations.

CONDITION: Given a TO&E, access to automated systems and a FRAGO.

STANDARD: To monitor contact team operations, report equipment statuses and update reporting requirements into appropriate supporting maintenance and sustainment systems.

EVENT COMPONENTS:

1. Verify mission requirements.
2. Conduct equipment checks.
3. Develop recovery ORM.
4. Facilitate Battle Damage Assessment and Repair (BDAR), if applicable.
5. Verify collection points/main supply routes.
6. Conduct salvage/disposal procedures, as required.
7. Issue orders to ground ordnance maintenance contact teams.
8. Verify collection points/main supply routes.
9. Report the status of equipment, as required.
10. Maintain communications with supported elements.

REFERENCES:

1. FM 9-43-2 Recovery and Battlefield Damage Assessment and Repair
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
4. MCTP 3-40B Tactical-Level Logistics
5. MCTP 3-40C Operational-Level Logistics
6. MCTP 3-40E Maintenance Operations
7. MCWP 3-40_ MAGTF Logistics Operations
8. MCWP 5-10 Marine Corps Planning Process
9. MSTP PAM 4-0.2 A Logistics Planner's Guide
10. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-VREC-6001

3006. INDEX OF 6000-LEVEL COLLECTIVE EVENTS

Event Code	E-Coded	Event	Page
ORD-MAIN-6001	NO	Coordinate maintenance operations actions for field level ground ordnance equipment	3-9
ORD-OPS-6001	NO	Coordinate employment of ground ordnance maintenance activities	3-10
ORD-VREC-6001	NO	Coordinate ground ordnance maintenance recovery operations	3-11

3007. 60000-LEVEL COLLECTIVE EVENTS

ORD-MAIN-6001: Coordinate maintenance operations actions for field level ground ordnance equipment

SUPPORTED MET (S): MCT 4.2.2

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

READINESS-CODED: NO

DESCRIPTION: Consists of coordinating the functions associated with equipment receipt and transfer, technical data research, tool issue, shop property control, budgeting, contracting, classes of supply, warranties, and the recording and reporting of completed maintenance actions equipment within designated operations.

CONDITION: Given higher headquarters operation order, a TO&E, access to automated systems and commander's guidance.

STANDARD: To ensure accurate reporting of requirements, readiness status and other data into appropriate supporting maintenance and sustainment systems.

EVENT COMPONENTS:

1. Plan ground ordnance maintenance operations.
2. Provide maintenance shop office/operations support for field level ground ordnance maintenance.

3. Provide services support for field level ground ordnance maintenance.
4. Provide maintenance administrative support for field level ground ordnance maintenance.
5. Determine maintenance reporting procedures.
6. Manage classes of supply.
7. Verify maintenance support request procedures.
8. Review maintenance support team procedures.
9. Integrate maintenance management procedures.
10. Assign tasks to subordinate maintenance support elements.
11. Maintain communications with supported elements.
12. Integrate maintenance tracking procedures with HASS organizations.
13. Conduct overflow maintenance.
14. Conduct internal inspections.
15. Conduct disposition of maintenance records.
16. Report maintenance readiness.
17. Receive maintenance support requests.
18. Validate maintenance support requirements.
19. Prioritize maintenance support requests.
20. Analyze maintenance records.
21. Report critical maintenance capability shortfalls.

REFERENCES:

1. MCO 4400.150 Consumer-Level Supply Policy
2. MCO 4400.16 Uniform Material Movement and Issue Priority System (UMMIPS)
3. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
4. MCO 7300.21 Marine Corps Financial Management Standard Operating Procedure Manual
5. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
6. MCTP 3-40B Tactical-Level Logistics
7. MCTP 3-40C Operational-Level Logistics
8. MCTP 3-40E Maintenance Operations
9. MCTP 3-40H MAGTF Supply Operations
10. MCTP 8-10B How to Conduct Training
11. MCWP 3-40 MAGTF Logistics Operations
12. MSTP PAM 4-0.2 A Logistics Planner's Guide
13. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide
14. MSTP PAM 5-0.3 MAGTF Planner's Reference Manual

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-MAIN-7001

INTERNAL SUPPORTING EVENTS: ORD-MAIN-5001

ORD-OPS-6001: Coordinate employment of ground ordnance maintenance activities

SUPPORTED MET(S): MCT 4.2.2

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Coordination of ground ordnance maintenance operations consists of reviewing HHQ plans for operational maintenance and maintenance management requirements, validating manpower, logistics, security, and movement requests for ground ordnance maintenance operations.

CONDITION: Given higher headquarters operation order, a TO&E, operating ashore or afloat, access to automated systems and commander's guidance.

STANDARD: To optimize maintenance actions, minimize resource consumption, and properly manage maintenance support requirements.

EVENT COMPONENTS:

1. Conduct planning (problem framing, develop course of actions (COA), COA wargaming, COA comparison and decision, orders development, and transition).
2. Validate organic equipment embarkation/debarkation load plans.
3. Facilitate deployment/redeployment of a ground ordnance maintenance activities.
4. Implement external support requirements embarkation and debarkation, as needed.
5. Verify the reconfiguration of loads to support changes in assigned missions.
6. Coordinate with established Unit Movement Control Centers, as needed.
7. Coordinate movements of subordinate maintenance support elements.
8. Maintain communication with supporting Higher, Adjacent, Subordinate, and Supporting (HASS).
9. Receive de-briefs, as required.
10. Submit after action reports, as required.

REFERENCES:

1. MCO 4400.150 Consumer-Level Supply Policy
2. MCO 4400.16 Uniform Material Movement and Issue Priority System (UMMIPS)
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
5. MCO 7300.21 Marine Corps Financial Management Standard Operating Procedure Manual
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
7. MCTP 3-40B Tactical-Level Logistics
8. MCTP 3-40C Operational-Level Logistics
9. MCTP 3-40E Maintenance Operations
10. MCTP 3-40H MAGTF Supply Operations
11. MCTP 8-10B How to Conduct Training
12. MCWP 3-40 MAGTF Logistics Operations
13. MSTP PAM 4-0.2 A Logistics Planner's Guide
14. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide
15. MSTP PAM 5-0.3 MAGTF Planner's Reference Manual

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-OPS-7001

INTERNAL SUPPORTING EVENTS: ORD-OPS-5001

ORD-VREC-6001: Coordinate ground ordnance maintenance recovery operations

SUPPORTED MET(S):

MCT 4.2.2 MCT 4.2.2.8

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

READINESS-CODED: NO

DESCRIPTION: Consists of coordinating the employment of contact teams made up of personnel that are capable of conducting recovery for the following types of recovery, but not limited to: self-recovery, dedicated recovery, land and water recovery operations and/or disposal of equipment within designated operations.

CONDITION: Given a TO&E, access to automated systems and a FRAGO.

STANDARD: To coordinate and integrate ground ordnance maintenance efforts, and implement internal control procedures to ensure compliance with higher headquarters orders.

EVENT COMPONENTS:

1. Conduct planning (problem framing, develop course of actions (COA), COA wargaming, COA comparison and decision, orders development, and transition).
2. Verify mission requirements.
3. Coordinate with ground ordnance maintenance support areas and facilities, as needed.
4. Develop recovery ORM.
5. Facilitate Battle Damage Assessment and Repair (BDAR), if applicable.
6. Coordinate salvage/disposal procedures, as required.
7. Facilitate ordnance maintenance recovery teams.
8. Verify collection points/main supply routes.
9. Report the status of degraded equipment.
10. Maintain communication with supported elements and/or HHQ, if applicable.

REFERENCES:

1. FM 9-43-2 Recovery and Battlefield Damage Assessment and Repair
2. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
3. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
4. MCTP 3-40B Tactical-Level Logistics
5. MCTP 3-40C Operational-Level Logistics
6. MCTP 3-40E Maintenance Operations
7. MCWP 3-40 MAGTF Logistics Operations
8. MCWP 5-10 Marine Corps Planning Process
9. MSTP PAM 4-0.2 A Logistics Planner's Guide
10. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-VREC-7001

INTERNAL SUPPORTING EVENTS: ORD-VREC-5001

3008. INDEX OF 7000-LEVEL COLLECTIVE EVENTS

Event Code	E-Coded	Event	Page
ORD-LIC-7001	NO	Manage a ground ordnance licensing program	3-13
ORD-MAIN-7001	YES	Manage maintenance operations actions for field level ground ordnance equipment	3-14
ORD-OPS-7001	NO	Manage employment of ground ordnance maintenance activities	3-15
ORD-VREC-7001	YES	Manage ground ordnance maintenance recovery operations (L/S)	3-16

3009. 7000-LEVEL COLLECTIVE EVENTS

ORD-LIC-7001: Manage a ground ordnance licensing program

SUPPORTED MET(S):

MCT 4.2.2 MCT 4.2.2.8

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

READINESS-CODED: NO

DESCRIPTION: Consists of managing a ground ordnance licensing program by qualifying, testing, and certifying vehicle operators in the performance of their duties. Identify individuals that require ordnance vehicle operators; licenses and maintain a program to effectively train, test, and track personnel.

CONDITION: Given licensing authority, a TO&E, access to automated systems, and commander's guidance.

STANDARD: To establish standard procedures for qualifying, testing, initial licensing and renewal of ordnance vehicle operators.

EVENT COMPONENTS:

1. Conduct reviews/validation of unit TO&E requirements.
2. Assign licensing officers in writing.
3. Assign qualified licensing examiners in writing.
4. Maintain records of licensed personnel.
5. Maintain license logbooks.
6. Conduct physical screening and evaluation, as required.
7. Provide written testing, as required.
8. Provide skills testing, as required.
9. Conduct reviews of license revocation, as needed.
10. Maintain automated systems containing license requirements.
11. Submit after action reports, as required.

REFERENCES: MCO 8400.6 Licensing Procedures for Ordnance Vehicles

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS:

ORD-MAIN-8001 ORD-OPS-8001 ORD-VREC-8001

ORD-MAIN-7001: Manage maintenance operations actions for field level ground ordnance equipment

SUPPORTED MET(S): MCT 4.2.2

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

READINESS-CODED: NO

DESCRIPTION: Management of ground ordnance maintenance operations consist of functions associated with equipment receipt and transfer, technical data research, tool issue, shop property control, budgeting, contracting, classes of supply, warranties, and the recording and reporting of completed maintenance actions equipment within designated operations.

CONDITION: Given higher headquarters operation order, a TO&E, access to automated systems and commander's guidance.

STANDARD: To coordinate and integrate maintenance management and maintenance efforts of command activities, and implement internal control procedures to ensure compliance with maintenance policy.

EVENT COMPONENTS:

1. Verify source documents.
2. Identify supporting/supported maintenance relationships.
3. Verify budgetary requirements.
4. Validate supported unit's maintenance capabilities.
5. Determine maintenance reporting procedures.
6. Manage classes of supply.
7. Verify maintenance support request procedures.
8. Review maintenance support team procedures.
9. Integrate maintenance management procedures.
10. Assign tasks to subordinate maintenance support elements.
11. Maintain communications with supported elements.
12. Integrate maintenance tracking procedures with HASS organizations.
13. Manage overflow maintenance.
14. Conduct internal inspections.
15. Manage disposition of maintenance records.
16. Report maintenance readiness.
17. Receive maintenance support requests.
18. Validate maintenance support requirements.
19. Prioritize maintenance support requests.
20. Report critical maintenance capability shortfalls.

REFERENCES:

1. MCO 4400.150 Consumer-Level Supply Policy
2. MCO 4400.16 Uniform Material Movement and Issue Priority System (UMMIPS)
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
5. MCO 7300.21 Marine Corps Financial Management Standard Operating Procedure Manual
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
7. MCTP 3-40B Tactical-Level Logistics
8. MCTP 3-40C Operational-Level Logistics

9. MCTP 3-40E Maintenance Operations
10. MCTP 3-40H MAGTF Supply Operations
11. MCTP 8-10B How to Conduct Training
12. MCWP 3-40_ MAGTF Logistics Operations
13. MSTP PAM 4-0.2 A Logistics Planner's Guide
14. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide
15. MSTP PAM 5-0.3 MAGTF Planner's Reference Manual

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-MAIN-8001

INTERNAL SUPPORTING EVENTS: ORD-MAIN-6001

ORD-OPS-7001: Manage employment of ground ordnance maintenance activities

SUPPORTED MET(S): MCT 4.2.2

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

READINESS-CODED: NO

DESCRIPTION: Management of ground ordnance maintenance operations consists of staff planning for operational maintenance and maintenance management requirements, validating manpower, logistics, security, and movement requests for ground ordnance maintenance operations.

CONDITION: Given higher headquarters operation order, a TO&E, operating ashore or afloat, access to automated systems and commander's guidance.

STANDARD: To prioritize and manage maintenance resources in an effort to increase equipment availability through the employment of a comprehensive maintenance practices.

EVENT COMPONENTS:

1. Conduct planning (problem framing, develop course of actions (COA), COA wargaming, COA comparison and decision, orders development, and transition).
2. Verify organic equipment embarkation/debarkation load plans.
3. Assign deployment/redeployment of a ground ordnance maintenance activities.
4. Verify external support requirements embarkation and debarkation, as needed.
5. Verify the reconfiguration of loads to support changes in assigned missions.
6. Coordinate with established Unit Movement Control Centers, as needed.
7. Coordinate movements of subordinate maintenance support elements.
8. Maintain communication with supporting Higher, Adjacent, Subordinate, and Supporting (HASS).
9. Receive de-briefs, as required.
10. Submit after action reports, as required.

REFERENCES:

1. MCO 4400.150 Consumer-Level Supply Policy

9. Report the status of degraded equipment.
10. Review/validate maintenance management procedures.
11. Maintain communication with supporting Higher, Adjacent, Subordinate, and Supporting (HASS).
12. Receive de-briefs, as required.
13. Submit after action reports, as required.

REFERENCES :

1. FM 9-43-2 Recovery and Battlefield Damage Assessment and Repair
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
4. MCTP 3-40B Tactical-Level Logistics
5. MCTP 3-40C Operational-Level Logistics
6. MCTP 3-40E Maintenance Operations
7. MCWP 3-40_ MAGTF Logistics Operations
8. MCWP 5-10 Marine Corps Planning Process
9. MSTP PAM 4-0.2 A Logistics Planner's Guide
10. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-VREC-8001

INTERNAL SUPPORTING EVENTS: ORD-VREC-6001

SUPPORT REQUIREMENTS:

SIMULATION EVALUATION:

<u>SIMULATED</u>	<u>SUITABILITY</u>	<u>SIMULATOR</u>	<u>UNIT OF MEASURE</u>	<u>HOURS</u>	<u>PM</u>
Partial	L/S	MTWS	Unit Hours	6	Y

3010. INDEX OF 8000-LEVEL COLLECTIVE EVENTS

Event Code	E-Coded	Event	Page
ORD-MAIN-8001	YES	Direct maintenance operations actions for field level ground ordnance equipment	3-17
ORD-OPS-8001	NO	Direct employment of ground ordnance maintenance activities	3-19
ORD-VREC-8001	YES	Direct ground ordnance maintenance recovery operations (L/S)	3-20

3011. 8000-LEVEL COLLECTIVE EVENTS

ORD-MAIN-8001: Direct maintenance operations actions for field level ground ordnance equipment

SUPPORTED MET (S): MCT 4.2.2

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Direction of ground ordnance maintenance operations consist of functions associated with equipment receipt and transfer, technical data research, tool issue, shop property control, budgeting, contracting, classes of supply, warranties, and the recording and reporting of completed maintenance actions equipment within designated operations.

CONDITION: Given higher headquarters operation order, a TO&E, access to automated systems and commander's guidance.

STANDARD: To capture and report data used in assessing performance and sustainment metrics, operational readiness assessments, costs and ground equipment condition readiness IAW MCO 4790.2.

EVENT COMPONENTS:

1. Verify source documents.
2. Identify contracting support requirements.
3. Identify warranty service support requirements.
4. Identify supporting/supported maintenance relationships.
5. Determine budgetary requirements.
6. Validate supported unit's maintenance capabilities.
7. Determine maintenance reporting procedures.
8. Coordinate requirements for classes of supply.
9. Develop maintenance support request procedures.
10. Determine maintenance support team procedures.
11. Integrate maintenance management procedures.
12. Assign tasks to subordinate maintenance support elements.
13. Communicate to higher headquarters maintenance equipment and manpower shortfalls.
14. Integrate maintenance support with higher, adjacent, supported, and supporting (HASS) organizations.
15. Synchronize internal and external maintenance staff actions.
16. Integrate maintenance tracking procedures with HASS organizations.
17. Coordinate principal end item rotation.
18. Coordinate emplacement of task-organized maintenance capabilities, support areas and facilities.
19. Coordinate overflow maintenance.
20. Conduct inspections.
21. Coordinate fielding of new equipment.
22. Coordinate disposition of maintenance records.

REFERENCES:

1. MCO 4400.150 Consumer-Level Supply Policy
2. MCO 4400.16 Uniform Material Movement and Issue Priority System (UMMIPS)
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
5. MCO 7300.21 Marine Corps Financial Management Standard Operating Procedure Manual
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
7. MCTP 3-40B Tactical-Level Logistics
8. MCTP 3-40C Operational-Level Logistics
9. MCTP 3-40E Maintenance Operations

10. MCTP 3-40H MAGTF Supply Operations
11. MCTP 8-10B How to Conduct Training
12. MCWP 3-40_ MAGTF Logistics Operations
13. MSTP PAM 4-0.2 A Logistics Planner's Guide
14. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide
15. MSTP PAM 5-0.3 MAGTF Planner's Reference Manual

CHAINED EVENTS:

INTERNAL SUPPORTED EVENTS: ORD-MAIN-7001

ORD-OPS-8001: Direct employment of ground ordnance maintenance activities

SUPPORTED MET(S): MCT 4.2.2

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

READINESS-CODED: NO

DESCRIPTION: Direction of employment of ground ordnance maintenance operations consists of operational maintenance management, planning for manpower requirements, logistics support, security considerations, and all movement requirements within operations.

CONDITION: Given higher headquarters operation order, a TO&E, operating ashore or afloat, access to automated systems and commander's guidance.

STANDARD: To ensure effective ground ordnance maintenance support for mission requirements.

EVENT COMPONENTS:

1. Conduct planning (problem framing, develop course of actions (COA), COA wargaming, COA comparison and decision, orders development, and transition).
2. Develop organic equipment embarkation/debarkation load plans.
3. Direct deployment/redeployment of a ground ordnance maintenance activities.
4. Coordinate external support requirements embarkation and debarkation, as needed.
5. Coordinate the reconfiguration of loads to support changes in assigned missions.
6. Coordinate with established Unit Movement Control Centers, as needed.
7. Monitor movements of subordinate maintenance support elements.
8. Assign tasks to subordinate maintenance support elements.
9. Maintain communication with supporting Higher, Adjacent, Subordinate, and Supporting (HASS).
10. Receive after action reports, as required.

REFERENCES:

1. MCO 4400.150 Consumer-Level Supply Policy
2. MCO 4400.16_ Uniform Material Movement and Issue Priority System (UMMIPS)
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
5. MCO 7300.21_ Marine Corps Financial Management Standard Operating

- Procedure Manual
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
 7. MCTP 3-40B Tactical-Level Logistics
 8. MCTP 3-40C Operational-Level Logistics
 9. MCTP 3-40E Maintenance Operations
 10. MCTP 3-40H MAGTF Supply Operations
 11. MCTP 8-10B How to Conduct Training
 12. MCWP 3-40 MAGTF Logistics Operations
 13. MSTP PAM 4-0.2 A Logistics Planner's Guide
 14. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide
 15. MSTP PAM 5-0.3 MAGTF Planner's Reference Manual

CHAINED EVENTS:

INTERNAL SUPPORTING EVENTS: ORD-OPS-7001

ORD-VREC-8001: Direct ground ordnance maintenance recovery operations (L/S)

SUPPORTED MET(S):

MCT 4.2.2 MCT 4.2.2.8

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

READINESS-CODED: NO

DESCRIPTION: Ground ordnance maintenance recovery operations consist of establishing recovery and evacuation priorities for the following types of recovery, but not limited to: self-recovery, dedicated recovery, land or water recovery within designated operations.

CONDITION: Given higher headquarters operation order, a TO&E, access to automated systems and commander's guidance.

STANDARD: To identify requirements, optimize maintenance actions, and minimize resource consumptions.

EVENT COMPONENTS:

1. Conduct planning (problem framing, develop course of actions (COA), COA wargaming, COA comparison and decision, orders development, and transition).
2. Prioritize mission requirements based upon ground ordnance subordinate unit attachment capabilities and/or organizational structures.
3. Coordinate emplacement of task-organized ground ordnance maintenance capabilities, support areas and facilities.
4. Develop recovery ORM.
5. Determine Battle Damage Assessment and Repair (BDAR), if applicable.
6. Issue orders to supporting ground ordnance maintenance attachments.
7. Determine collection points/main supply routes.
8. Prioritize salvage/disposal procedures, as required.
9. Monitor the status of degraded equipment assets.
10. Integrate maintenance management procedures.
11. Maintain communication with supporting Higher, Adjacent, Subordinate, and Supporting (HASS).
12. Receive after action reports, as required.

REFERENCES :

1. FM 9-43-2 Recovery and Battlefield Damage Assessment and Repair
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
4. MCTP 3-40B Tactical-Level Logistics
5. MCTP 3-40C Operational-Level Logistics
6. MCTP 3-40E Maintenance Operations
7. MCWP 3-40_ MAGTF Logistics Operations
8. MCWP 5-10 Marine Corps Planning Process
9. MSTP PAM 4-0.2 A Logistics Planner's Guide
10. MSTP PAM 5-0.2 Operational Planning Team Leader's Guide

CHAINED EVENTS :

INTERNAL SUPPORTING EVENTS : ORD-VREC-7001

SUPPORT REQUIREMENTS :

SIMULATION EVALUATION :

<u>SIMULATED</u>	<u>SUITABILITY</u>	<u>SIMULATOR</u>	<u>UNIT OF MEASURE</u>	<u>HOURS</u>	<u>PM</u>
Partial	L/S	MTWS	Unit Hours	6	Y

GRDORDMAINT T&R MANUAL

CHAPTER 4

MOS 21XX INDIVIDUAL EVENTS

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GRDORDMAINT T&R MANUAL

CHAPTER 4

MOS 21XX INDIVIDUAL EVENTS

4000. PURPOSE. This chapter details the individual events that pertain to Ground Ordnance Maintenance common events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

4001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
21XX	Ground Ordnance Maintenance Personnel

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
ADMN	Administration
COND	Combat Conditioning
MAIN	Maintenance
OPS	Operations
PLAN	Planning
PROG	Programs
SCTY	Security
VOPS	Vehicle Operations

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
1000	Core Skills
2000	Core Plus Skills

4002. INDEX OF 1000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
21XX-ADMN-1001	NO	Document maintenance actions	4-3
21XX-MAIN-1001	NO	Conduct preventative maintenance checks and services (PMCS) on ground ordnance vehicles	4-3

21XX-PROG-1002	NO	Conduct modification control	4-5
21XX-PROG-1001	NO	Perform tool control	4-5
21XX-SCTY-1001	NO	Perform armory procedures	4-6
21XX-VOPS-1002	NO	Perform equipment recovery operations	4-6
21XX-VOPS-1001	NO	Operate a vehicle	4-7

4003. 1000-LEVEL EVENTS

21XX-ADMN-1001: Document maintenance actions

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

READINESS-CODED: NO

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2161, 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given data processing equipment, an operational environment, source documentation and an Automated Information Systems (AIS).

STANDARD: To record maintenance performed on equipment in the maintenance cycle with 100% accuracy.

PERFORMANCE STEPS:

1. Verify source documents.
2. Access Automated Information System.
3. Access Maintenance Record.
4. Perform data entry.
5. Validate data entry.
6. Submit maintenance record for disposition.

REFERENCES:

1. AIS User's Manual Automated Information System User's Manual
 2. FEDLOG Federal Logistic Data
 3. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 4. MCO 4400.150 Consumer-Level Supply Policy
 5. MCO 4400.16_ Uniform Material Movement and Issue Priority System (UMMIPS)
 6. MCO 4400.201 Management of Property in the Possession of the Marine Corps
 7. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 8. MCO 5215.17_ Marine Corps Technical Publication Management
 9. MCTP 3-40E Maintenance Operations
 10. TM 4700-15/1_ Ground Equipment Record Procedures
-

21XX-MAIN-1001: Conduct preventative maintenance checks and services (PMCS) on ground ordnance vehicles

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

READINESS-CODED: NO

DESCRIPTION: PMCS is a sub-function of field maintenance and is performed by equipment operator(s) and maintenance personnel; it includes servicing, adjustment, and tuning for the purpose of maintaining equipment in an operationally ready condition. PMCS is condition based and shall be accomplished by systematic inspection, detection, and correction of failures as set forth in applicable equipment technical publication. This is applicable to the AAV FOV, LAV FOV, Tank FOV, ABV, and AVLB.

MOS PERFORMING: 2141, 2146, 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To ensure equipment is maintained in an operationally ready condition in accordance with MCO 4790.2_.

PERFORMANCE STEPS:

1. Review PMCS schedule.
2. Requisition service kits, if applicable.
3. Induct equipment into maintenance.
4. Determine technical references.
5. Conduct initial inspection.
6. Adjust equipment performance.
7. Verify equipment performance.
8. Conduct quality control procedures.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. MCWP 4-11.4 Maintenance Operations
5. TM 07268B-10/1A Assault Amphibious Vehicle, Command, Model 7A1, AAVC7A1 Supplement to TM 09674A-10/3
6. TM 07268B-10/1D Assault Amphibious Vehicle, Command, Model 7A1 (AAVC7A1) Supplement to TM 09674A-10/3
7. TM 07268B-10/1E Assault Amphibious Vehicle, Command, Model 7A1 (AAVC7A1) Supplement to TM 09674A-10/3
8. TM 07268C-10/1 Assault Amphibious Vehicle, Command, Model 7A1 RAM/RS (AAVC7A1 RAM/RS) Supplement to TM 09674A-10/3
9. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
10. TM 12906A-10/1 Assault Amphibious Vehicle, Family of Vehicles, Model 7A2 Operator Manual (AAV7A2)
11. TM 13005A-10/1 Assault Amphibious Vehicle, Command, Model 7A2, Operator Manual (AAVC7A2)

21XX-PROG-1002: Conduct modification control

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

READINESS-CODED: NO

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2161, 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources

STANDARD: To ensure the application and recording of all modifications, for the unit's equipment, is conducted in accordance with GCSS-MC User Manual 4400.125.

PERFORMANCE STEPS:

1. Review modification instructions.
2. Identify equipment requiring modification.
3. Induct equipment into the maintenance cycle, as required.
4. Requisition modification materials, as required.
5. Ensure application of modifications, as required.
6. Update modification control records, as required.

REFERENCES:

1. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 2. UM 4400.125 GCSS-MC User Manual
-

21XX-PROG-1001: Perform tool control

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

READINESS-CODED: NO

DESCRIPTION: This task is designed for an individual Marine performing basic tool box inventory.

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2161, 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources

STANDARD: To maintain accountability and control of all tool kits, chests, sets and organic equipment in accordance with MCO 4790.25_.

PERFORMANCE STEPS:

1. Identify all assigned tool sets, kits, chests, TMDE, and equipment.
2. Maintain TMDE, as required.
3. Receipt for tool sets, chests, kits and equipment.
4. Conduct inventory.
5. Maintain records.
6. Requisition replacements, as required.
7. Ensure security of all tool sets, chests, kits and organic equipment.

REFERENCES:

1. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 2. TM 4700-15/1_ Ground Equipment Record Procedures
-

21XX-SCTY-1001: Perform armory procedures

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

READINESS-CODED: NO

MOS PERFORMING: 2111, 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources

STANDARD: To ensure security and accountability of AA&E assets

PERFORMANCE STEPS:

1. Store AA&E.
2. Conduct accountability of serialized/non-serialized assets.
3. Issue and recover AA&E.
4. Complete required NAVMC forms and records.
5. Comply with armory security procedures.
6. Transport AA&E assets.

REFERENCES:

1. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 2. MCO 5530.14_ Marine Corps Physical Security Program Manual
 3. TM 4700-15/1_ Ground Equipment Record Procedures
-

21XX-VOPS-1002: Perform equipment recovery operations

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

READINESS-CODED: NO

DESCRIPTION: Recovery operations may consist of the following types of recovery, but not limited to: self-recovery, dedicated recovery, land or water recovery within designated operations.

MOS PERFORMING: 2141, 2146, 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement and ground ordnance recovery vehicle.

STANDARD: In order to salvage ground ordnance assets and other military equipment.

PERFORMANCE STEPS:

1. Reconnoiter recovery site.
2. Conduct damage assessment.
3. Determine resistance.
4. Determine required recovery equipment.
5. Conduct required operations checks and services on equipment.
6. Conduct pre-water operation checks and services, as required.
7. Retrieve disabled equipment.

REFERENCES: FM 9-43-2 Recovery and Battlefield Damage Assessment and Repair

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a MOS Specific Physical Standard required for the MOSs of 2141, 2146, 2147. See Appendix D for further detail.

21XX-VOPS-1001: Operate a vehicle

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

READINESS-CODED: NO

DESCRIPTION: Ground Ordnance Vehicle maintainers are required to operate MOS specific vehicle variants (Tank FOV, AAV FOV, and LAV FOV).

MOS PERFORMING: 2141, 2146, 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, applicable vehicle, equipment, and resources.

STANDARD: To ensure operation is conducted in a safe and efficient manner while maintaining control at all times.

PERFORMANCE STEPS:

1. Perform before, during and after operation checks and services.
2. Navigate applicable variant.
3. Employ communications equipment.
4. Employ DVE.

5. Inspect, mount, stowage SL-3 and collateral equipment.
6. Maintain Vehicle Logbook.

REFERENCES:

1. FM 21-305 Manual for Wheeled Vehicle Driver
2. MCWP 3-10 MAGTF Ground Operations
3. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1
4. TM 08594B-34/8 Light Armored Vehicle (LAV)
5. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
6. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
7. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3

4004. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
21XX-ADMN-2001	NO	Perform quality control	4-8
21XX-ADMN-2002	NO	Develop unit level ground ordnance maintenance policy/procedures	4-9
21XX-LIC-2001	NO	Manage ordnance vehicle licensing programs	4-10
21XX-MAIN-2001	NO	Conduct preventative maintenance checks and services (PMCS) on ordnance vehicle associated equipment	4-10
21XX-MAIN-2002	NO	Conduct field level corrective maintenance on ordnance vehicle associated equipment	4-11
21XX-MAIN-2003	NO	Conduct field level intermediate maintenance on ordnance vehicle fire suppression systems	4-12
21XX-MAIN-2004	NO	Supervise maintenance actions of ground ordnance equipment	4-13
21XX-OPS-2001	NO	Prepare organic equipment for embarkation	4-13
21XX-OPS-2002	NO	Supervise ground ordnance maintenance operations	4-14
21XX-OPS-2003	NO	Manage ground ordnance maintenance operations	4-15
21XX-OPS-2004	NO	Supervise armory operations	4-16
21XX-PLAN-2001	NO	Plan for the deployment of maintenance capability	4-16
21XX-PROG-2001	NO	Supervise maintenance related programs	4-17
21XX-PROG-2002	NO	Manage maintenance related programs	4-18
21XX-SCTY-2001	NO	Perform physical security procedures	4-19
21XX-VOPS-2003	NO	Employ recovery vehicle weapon system	4-19

4005. 2000-LEVEL EVENTS

21XX-ADMN-2001: Perform quality control

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

READINESS-CODED: NO

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2161, 2171

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To ensure the 100 percent accuracy of maintenance and administrative actions.

PERFORMANCE STEPS:

1. Access AIS
2. Inspect equipment
3. Inspect equipment records
4. Inspect AIS electronic records
5. Complete administrative action in AIS

REFERENCES:

1. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 2. MCWP 4-11.4 Maintenance Operations
-

21XX-ADMN-2002: Develop unit level ground ordnance maintenance policy/procedures

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

READINESS-CODED: NO

MOS PERFORMING: 2102, 2110, 2120, 2125, 2149, 2181

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given commander's guidance, directives from higher headquarters, a mission and TO&E assets.

STANDARD: To assess required information and take appropriate action in order to meet mission requirements in accordance with MCO 4790.25_.

PERFORMANCE STEPS:

1. Analyze mission, directives, policy guidance and references.
2. Determine commander's additional policy guidance.
3. Determine procedures requiring deviation from existing policy.
4. Determine policies requiring amplification.
5. Indicate rationale why current directives are inadequate or inappropriate.

6. Staff procedures/policy letters for review.

REFERENCES: MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)

21XX-LIC-2001: Manage ordnance vehicle licensing programs

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

READINESS-CODED: NO

MOS PERFORMING: 2102, 2110

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commander's guidance, TO&E assets, mission and a licensing requirement.

STANDARD: To ensure compliance with ordnance vehicle licensing procedures.

PERFORMANCE STEPS:

1. Assess licensing requirements.
2. Assess licensing capabilities.
3. Ensure license applicant eligibility.
4. Establish testing procedures.
5. Establish driver history file.
6. Maintain licensing records.

REFERENCES: MCO 8400.6 Licensing Procedures for Ordnance Vehicles

21XX-MAIN-2001: Conduct preventative maintenance checks and services (PMCS) on ordnance vehicle associated equipment

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

READINESS-CODED: NO

DESCRIPTION: PMCS is a sub-function of field maintenance and is performed by equipment operator(s) and maintenance personnel; it includes servicing, adjustment, and tuning for the purpose of maintaining equipment in an operationally ready condition. PMCS is condition based and shall be accomplished by systematic inspection, detection, and correction of failures as set forth in applicable equipment technical publication. This included AAV FOV Special Mission Kits, LAV FOV Special Mission Kits, M1A1 Tank Blade and Plow, MK-154, AAVC7 FOV Auxiliary Power Unit (APU,) and ABV/AVLB attachments.

MOS PERFORMING: 2141, 2146, 2147

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources

STANDARD: To ensure equipment is maintained in an operationally ready condition in accordance with MCO 4790.2_.

PERFORMANCE STEPS:

1. Review PMCS schedule.
2. Requisition service kits, if applicable.
3. Induct equipment into maintenance.
4. Determine technical references.
5. Conduct initial inspection.
6. Adjust equipment performance.
7. Verify equipment performance.
8. Conduct quality control procedures.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCTP 3-40E Maintenance Operations
 2. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 3. TM 09674A-10/3_ Operator's Manual, AAV 7A1 FOV
 4. TM 09674A-10/3D Operator's Manual, Assault Amphibious Vehicle 7A1 Family of Vehicles (With Special Mission Kits)
 5. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 6. TM 12906A/13005A-25&P/1 Assault Amphibious Vehicle, Family of vehicles, Model 7A2, Hull Repair and Maintenance Manual (Field and Depot)
-

21XX-MAIN-2002: Conduct field level corrective maintenance on ordnance vehicle associated equipment

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition. This included AAV FOV Special Mission Kits, LAV FOV Special Mission Kits, M1A1 Tank Blade and Plow, MK-154, AAVC7 FOV Auxiliary Power Unit (APU), and ABV/AVLB attachments.

MOS PERFORMING: 2141, 2146, 2147

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 09674A-10/3_ Operator's Manual, AAV 7A1 FOV
5. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
6. TM 12906A/13005A-25&P/1 Assault Amphibious Vehicle, Family of vehicles, Model 7A2, Hull Repair and Maintenance Manual (Field and Depot)

21XX-MAIN-2003: Conduct field level intermediate maintenance on ordnance vehicle fire suppression systems

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141, 2146, 2147

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 3. MCTP 3-40E Maintenance Operations
 4. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 5. SL-3-07430B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 6. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 7. TM 12906A/13005A-25&P/1 Assault Amphibious Vehicle, Family of vehicles, Model 7A2, Hull Repair and Maintenance Manual (Field and Depot)
-

21XX-MAIN-2004: Supervise maintenance actions of ground ordnance equipment

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

READINESS-CODED: NO

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2161, 2171

GRADES: CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Verify inspection has been conducted.
2. Verify service has been performed.
3. Verify repair has been performed.
4. Verify recovery and evacuation, if applicable, has been conducted.
5. Verify modification, if applicable, has been conducted.
6. Verify quality control inspection has been conducted.
7. Verify AIS actions are completed.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 4. MCTP 3-40E Maintenance Operations
 5. TM 4700-15/1_ Ground Equipment Record Procedures
 6. TM 750-116 General Procedures for Purge and Charge
 7. TM 9-254 General Maintenance Procedures for Fire Control Materiel
 8. TM 9-258 Elementary Optics and Application to Fire Control Instruments
 9. UM 4400.125 GCSS-MC User Manual
-

21XX-OPS-2001: Prepare organic equipment for embarkation

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

READINESS-CODED: NO

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2161, 2171

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, TO&E assets, and access to AIS

STANDARD: To maintain the units' ability to rapidly deploy in accordance with MCRP 4-11.3G.

PERFORMANCE STEPS:

1. Ensure SL-3 completeness of maintenance/maintenance support equipment.
2. Determine requirements for embarkation materials.
3. Ensure completion of tactical marking of maintenance/maintenance support equipment.
4. Prepare embarkation documents (packing and embark lists, EDL, etc.).
5. Ensure completion of weather/waterproofing of maintenance/maintenance support equipment.
6. Determine special lifting/handling requirements for maintenance/maintenance support equipment.
7. Determine hazardous material movement requirements.

REFERENCES:

1. MCRP 4-11.3G MCRP 4-11.3G Unit Embarkation Handbook
2. TM 07267B-10/1_ Operator's Manual, AAVR7A1.
3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
4. TM 9-2350-264-10-1 Operators Manual, Operator Controls, PMCS, and Operation Under Usual Conditions, Volume 1 of 2, Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 2350-01-087-1095 General Abrams

21XX-OPS-2002: Supervise ground ordnance maintenance operations

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

READINESS-CODED: NO

DESCRIPTION: Oversee the execution of maintenance operations including but not limited to personnel, physical security, recovery operations, safety programs, and AA&E procedures.

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2161, 2171

GRADES: CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, TO&E, access to AIS.

STANDARD: To ensure compliance with policy and procedures for operations related to ground ordnance resources.

PERFORMANCE STEPS:

1. Supervise personnel.
2. Supervise accountability of serialized/non-serialized assets.
3. Supervise completion of required NAVMC forms, records and AIS.
4. Supervise compliance with physical security procedures.
5. Supervise ground ordnance safety programs.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCO 5500.6_ Arming of Law Enforcement and Security Personnel and the Use of Force
4. MCO 5530.14_ Marine Corps Physical Security Program Manual
5. MCWP 4-11.4 Maintenance Operations
6. UM 4400.125 GCSS-MC User Manual

21XX-OPS-2003: Manage ground ordnance maintenance operations

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

READINESS-CODED: NO

DESCRIPTION: Management of maintenance operations includes but is not limited to personnel, physical security, recovery operations, safety programs, and AA&E procedures.

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADES: SSGT, GYSGT, MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, TO&E, access to AIS.

STANDARD: To ensure compliance with policy and procedures for operations related to ground ordnance resources.

PERFORMANCE STEPS:

1. Employ personnel.
2. Ensure accountability of serialized/non-serialized assets.
3. Inspect completion of required NAVMC forms, records and AIS.
4. Enforce compliance with physical security procedures.
5. Enforce ground ordnance safety programs.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCO 5500.6_ Arming of Law Enforcement and Security Personnel and the Use of Force

4. MCO 5530.14_ Marine Corps Physical Security Program Manual
5. MCWP 4-11.4 Maintenance Operations
6. UM 4400.125 GCSS-MC User Manual

21XX-OPS-2004: Supervise armory operations

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

READINESS-CODED: NO

MOS PERFORMING: 2111, 2131, 2171

GRADES: CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, access to AIS, and unit TO&E equipment.

STANDARD: To ensure safety, security, accountability and availability of AA&E and armory assets.

PERFORMANCE STEPS:

1. Oversee storage of AA&E.
2. Oversee issue and recover AA&E.
3. Oversee accountability of serialized/non-serialized assets.
4. Oversee completion of required NAVMC forms, records and AIS.
5. Oversee compliance with armory security procedures.
6. Oversee the transport of AA&E assets.

REFERENCES:

1. DOD 4160.21-M-1 Defense Demilitarization Manual
2. MCO 4400.150 Consumer-Level Supply Policy
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 5500.6_ Arming of Law Enforcement and Security Personnel and the Use of Force
5. MCO 5530.14_ Marine Corps Physical Security Program Manual
6. MCO 8300.1_ Marine Corps Serialized Control of Small Arms Systems
7. MCTP 3-40E Maintenance Operations
8. MCTP 8-10B How to Conduct Training
9. TI 4733-OD/11_ Infantry Weapons Gage Calibration Program (IWGCP)
10. TM 4700-15/1_ Ground Equipment Record Procedures

21XX-PLAN-2001: Plan for the deployment of maintenance capability

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

READINESS-CODED: NO

MOS PERFORMING: 2102, 2110, 2120, 2125

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, TO&E, access to AIS.

STANDARD: To provided task-organized maintenance in order to meet mission requirements in support of operations in accordance with MCO 4790.25_.

PERFORMANCE STEPS:

1. Review mission requirements.
2. Identify supported unit requirements.
3. Identify supporting unit requirements.
4. Determine personnel requirements.
5. Determine equipment requirements.
6. Identify supply support requirements.
7. Identify shortfalls.
8. Submit embarkation requirements.
9. Identify power requirements.
10. Provide input for transportation load plans.
11. Determine site layout.

REFERENCES:

1. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 2. MCRP 4-11.3_ Unit Embarkation Handbook
 3. MCTP 3-40E Maintenance Operations
 4. MCWP 4-11.4 Maintenance Operations
-

21XX-PROG-2001: Supervise maintenance related programs

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

READINESS-CODED: NO

DESCRIPTION: Oversee the conduct and execution of the associated maintenance management programs outlined in MCO 4790.2

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2161, 2171

GRADES: CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, TO&E, access to AIS.

STANDARD: To ensure maintenance programs are conducted per MCO 4790.2_.

PERFORMANCE STEPS:

1. Supervise Training Program
2. Administer Product Quality Deficiency Report Program
3. Administer Modification Control Program
4. Administer Inventory Control Program
5. Administer Publications Program
6. Administer Calibration and Maintenance Program

7. Administer Corrosion Prevention and Control Program
8. Administer Deferred Maintenance Program
9. Administer Enterprise Lifecycle Maintenance Program
10. Administer Warranty Program
11. Administer Miniature/Micro-miniature Maintenance
12. Administer Safety Program

REFERENCES :

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 3. MCTP 3-40E Maintenance Operations
 4. UM 4400.125 GCSS-MC User Manual
-

21XX-PROG-2002: Manage maintenance related programs

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

READINESS-CODED: NO

DESCRIPTION: Supervise the administrative storage and deadlines, employment of contact team(s), maintenance stand down, replace and evacuation (IROAN), corrosion prevention and control, licensing and load certifications.

MOS PERFORMING: 2111, 2131, 2141, 2146, 2147, 2149, 2161, 2171, 2181

GRADES: SSGT, GYSGT, MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, TO&E, access to AIS.

STANDARD: To ensure maintenance programs are conducted per MCO 4790.2_.

PERFORMANCE STEPS:

1. Control Training Program.
2. Control Product Quality Deficiency Report Program.
3. Ensure compliance with Modification Control.
4. Ensure compliance with Inventory Control.
5. Ensure compliance with Publications Program.
6. Ensure compliance with Calibration and Maintenance Program.
7. Ensure compliance with Corrosion Prevention and Control Program.
8. Ensure compliance with Deferred Maintenance Program.
9. Ensure compliance with Enterprise Lifecycle Maintenance Program.
10. Ensure compliance with Warranty Program.
11. Ensure compliance with Miniature/Micro-miniature Maintenance Program.
12. Ensure compliance with Safety Program.

REFERENCES :

1. MCO 4400.150 Consumer-Level Supply Policy
2. MCO 4400.201 Management of Property in the Possession of the Marine Corps
3. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
4. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
5. MCWP 4-11.4 Maintenance Operations
6. UM 4400.125 GCSS-MC User Manual

21XX-SCTY-2001: Perform physical security procedures

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

READINESS-CODED: NO

MOS PERFORMING: 2111, 2171

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, TO&E, access to AIS.

STANDARD: To prevent the loss and theft of AA&E IAW MCO 5530.14_.

PERFORMANCE STEPS:

1. Enforce access control procedures.
2. Maintain Arms, Ammunition, and Explosive (AA&E) storage areas/facilities.
3. Conduct inventory/accountability of assets.
4. Employ security barriers.
5. Employ security lighting.
6. Maintain Physical Security records.

REFERENCES:

1. MCO 4030.16 Marine Corps Packaging and Packaging Maintenance of Small Arms using volatile corrosion inhibitor (VCI) treated materials
 2. MCO 4340.1_ DELETE Reporting of Missing, Lost, Stolen, or Recovered (MLSR) Government Property
 3. MCO 4610.15_ Shipment of Military Equipment, Explosives and other Dangerous Articles
 4. MCO 5500.6_ Arming of Law Enforcement and Security Personnel and the Use of Force
 5. MCO 5530.14_ Marine Corps Physical Security Program Manual
 6. MCO 8300.1_ Marine Corps Serialized Control of Small Arms Systems
-

21XX-VOPS-2003: Employ recovery vehicle weapon system

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

READINESS-CODED: NO

DESCRIPTION: Ground Ordnance Vehicle maintainers are required to operate MOS specific vehicle variants and variants weapon system (Tank FOV, AAV FOV, LAV FOV).

MOS PERFORMING: 2141, 2146, 2147

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, TO&E, and necessary resources.

STANDARD: To provide security for crew during recovery operations.

PERFORMANCE STEPS:

1. Perform PMCS.
2. Clear, disassemble, assemble, perform function check, load, unload and perform immediate action.
3. Employ weapon.
4. Conduct misfire procedures.
5. Terminate the engagement.

REFERENCES:

1. MCRP 3-10B.2 Heavy Brigade Combat Team (HBCT) Gunnery
2. TM 07267B-10/1 Operator's Manual, AAVR7A1.
3. TM 08651C-10/A Operator's Manual, LAV Recovery
4. TM 10984A-OR/1-1 Operators Manual, (ABV) Volume 1
5. TM 10984A-OR/1-2 Operators Manual, (ABV) Volume 2
6. TM 10984A-OR/4 CREW CHECKLIST ASSAULT BREACHER VEHICLE (ABV)

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>QUANTITY</u>
A131 Cartridge, 7.62mm 4 Ball M80/1 Tracer M62 Linked	300 cartridges per Marine

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

Simulations will be used as a precursor to live training whenever possible in order to help maximize and enhance the live training event

1. Gunners will fire one practice and one qualification.
2. Ammunition is either TP or HE DP and Ball or API-T (Only TP and Ball on Pop-up targets).
3. Gunners will utilize/validate a range card to engage targets.
4. Short range is 400 - 800m; long range is 800 - 1800m.
5. All steps can be performed in degraded gunnery (non-electric)

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CHAPTER 5

MOS 2102 INDIVIDUAL EVENTS

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GRDORDMAINT T&R MANUAL

CHAPTER 5

MOS 2102 INDIVIDUAL EVENTS

5000. PURPOSE

Refer to Chapter 4 for 21XX individual training events for which 2102 Ordnance Officers are responsible.

The 2102, Ground Ordnance Maintenance Officer, Military Occupational Specialty (MOS) is a career progression for a 2110 Ordnance Vehicle Maintenance Officer, 2120 Weapons Repair Officer, and 2125 Electrical Optical Repair Officer. Career progression and experience of the Marine that holds this MOS will execute the individual tasks of a 2110, 2120, and 2125 with an increased level of responsibility throughout all spectrums of logistics. It is expected of these ranks to direct, manage, supervise, perform, advise, and plan the employment of all ground ordnance maintenance resources at a strategic level. This Marine will manage all maintenance requirements associated with their position of authority that pertains to shop/unit's 21XX individual training events. The experience of the 2102, like the 2110, 2120, and 2125, is leveraged to evaluate and make recommendations to higher headquarters or supporting agencies on changes needed for future maintenance resources, processes, and capabilities. Additionally, the 2102 also provides advice, coordination, and recommendations to adjacent non-ground ordnance programs (i.e., Motor Transportation, Ground Electronics Maintenance, Engineer, etc.) with regard to associated ground ordnance maintenance planning and support at the enterprise level. The responsibility of the grade to which this officer is appointed is governed by the guidelines per Title 10 of the United States Code.

5001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2102	Ordnance Officer

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
MGMT	Management

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
2000	Core Plus Skills

5002. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2102-MGMT-2001	NO	Manage ground ordnance capabilities	5-3

5003. 2000-LEVEL EVENTS

2102-MGMT-2001: Manage ground ordnance capabilities

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

READINESS-CODED: NO

DESCRIPTION: Provide subject matter expertise in identifying, validating, and evaluating requirements for manning, training, and equipping the force. Assess the posture and effectiveness of assets/personnel, directing the prioritization of Ground Ordnance Maintenance efforts at the Enterprise, Operational and Tactical levels. Provide estimates of supportability and predict life cycle management rotation schedules to ensure readiness. Facilitate the development and fielding of equipment throughout the acquisitions and fielding process; including enterprise-level training requirements.

MOS PERFORMING: 2102

GRADES: CAPT, MAJ, LTCOL

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, Commander's guidance, TO&E assets, and access to AIS.

STANDARD: To ensure the combat readiness of ground ordnance equipment, associated equipment, and personnel to commanders.

PERFORMANCE STEPS:

1. Provide Subject Matter Expertise on Operation Level Ground Ordnance matters.
2. Direct Tactical Ground Ordnance Programs.
3. Analyze doctrinal/policy impacts/supportability.
4. Analyze personnel impacts/supportability.
5. Analyze training impacts/supportability.
6. Analyze materiel impacts/supportability.
7. Analyze fiscal restraints/priorities.
8. Direct a Marine Corps Formal Learning Center.
9. Advocate for Ground Ordnance Community as Occupational Field Sponsor.

10. Develop/manage Ground Ordnance Maintenance Policies that impact the community.
11. Supervise sustainment level maintenance initiatives.
12. Perform duties as an acquisition logistics specialist.

REFERENCES :

1. MCO 3900.15A MARINE CORPS EXPEDITIONARY FORCE DEVELOPMENT SYSTEM
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCWP 4-11.4 Maintenance Operations

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CHAPTER 6

MOS 2110 INDIVIDUAL EVENTS

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GRDORDMAINT T&R MANUAL

CHAPTER 6

MOS 2110 INDIVIDUAL EVENTS

6000. PURPOSE. Refer to Chapter 4 for 21XX individual training events for which 2110 Ordnance Vehicle Maintenance Officers are responsible.

6001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2110	Ordnance vehicle Maintenance Officer

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
LIC	Licensing
OPS	Operations
PROG	Programs

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
2000	Core Plus Skills

6002. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2110-OPS-2001	NO	Direct ground ordnance vehicle operations	6-2
2110-PROG-2001	NO	Direct ground ordnance vehicle maintenance programs	6-3

6003. 2000-LEVEL EVENTS

2110-OPS-2001: Direct ground ordnance vehicle operations

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to physical security, recovery operations and safety programs.

MOS PERFORMING: 2110

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, TO&E Assets, and access to AIS.

STANDARD: To ensure compliance with policies and procedures for operations related to ground ordnance resources.

PERFORMANCE STEPS:

1. Control accountability of serialized/non-serialized assets.
2. Control Completion of required NAVMC forms, records and AIS.
3. Control Compliance with physical security procedures.
4. Control the transport of ordnance vehicles.
5. Control ground ordnance safety programs.
6. Facilitate redistribution and fielding of equipment.

REFERENCES:

1. MCO 11262.2_ Standard Policy for Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCO 5500.6_ Arming of Law Enforcement and Security Personnel and the Use of Force
5. MCO 5530.14_ Marine Corps Physical Security Program Manual
6. MCO 8400.6 Licensing Procedures for Ordnance Vehicles
7. MCRP 4-11.3F Convoy Operations Handbook
8. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
9. MCWP 4-11.4 Maintenance Operations

2110-PROG-2001: Direct ground ordnance vehicle maintenance programs

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to: Load Lift Certification, Conditions Based Maintenance (CBM), Reliability Centered Maintenance (RCM), Enterprise Lifecycle Management Program (ELMP).

MOS PERFORMING: 2110

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, TO&E, and access to AIS.

STANDARD: To increase equipment availability through the management of a comprehensive maintenance effort.

PERFORMANCE STEPS:

1. Analyze mission requirements.
2. Assess capabilities.
3. Determine resource requirements.
4. Coordinate resource requirements.
5. Prioritize maintenance resources.
6. Manage maintenance reporting.

REFERENCES:

1. MCO 11262.2_ Standard Policy for Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCO 8400.6 Licensing Procedures for Ordnance Vehicles
5. MCRP 4-11.3F Convoy Operations Handbook
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
7. MCWP 4-11.4 Maintenance Operations

GRDORDMAINT T&R MANUAL

CHAPTER 7

MOS 2111 INDIVIDUAL EVENTS

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GRDORDMAINT T&R MANUAL

CHAPTER 7

MOS 2111 INDIVIDUAL EVENTS

7000. PURPOSE. This chapter details the individual events that pertain to MOS 2111 Small Arms Repairer/Technician events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

7001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2111	Small Arms Repairer/Technician

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
MAIN	Maintenance

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
1000	Core Skills
2000	Core Plus Skills

7002. INDEX OF 1000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2111-MAIN-1001	NO	Perform maintenance on weapon system bipods/tripods/mounts	7-3
2111-MAIN-1002	NO	Perform maintenance on indirect fire weapon systems	7-3
2111-MAIN-1003	NO	Perform maintenance on direct fire weapon systems	7-4

7003. 1000-LEVEL EVENTS

2111-MAIN-1001: Perform maintenance on weapon system bipods/tripods/mounts

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

READINESS-CODED: NO

DESCRIPTION: Maintenance is all action taken to retain materiel in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2111

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, access to AIS, and unit TO&E.

STANDARD: To return equipment to serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Conduct initial inspection.
3. Troubleshoot, as needed.
4. Determine maintenance actions required.
5. Perform required maintenance actions.
6. Document maintenance actions into AIS.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCO 4400.150 Consumer-Level Supply Policy
 3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
 4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 5. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 6. MCWP 4-11.4 Maintenance Operations
 7. TM 1005-13A&P/1_ OPERATORS, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) FOR GROUND MOUNTS; MACHINE GUN MOUNTS; AND COMBINATIONS FOR TACTICAL/ARMORED VEHICLES
 8. TM 11491A-OI Organizational and Intermediate Maintenance Manual w/ Repair Parts List (RPL), M35 Medium Machine Gun Vehicle Mount
 9. TM 4700-15/1_ Ground Equipment Record Procedures
 10. UM 4400.125 GCSS-MC User Manual
-

2111-MAIN-1002: Perform maintenance on indirect fire weapon systems

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

READINESS-CODED: NO

DESCRIPTION: Indirect fire weapon systems are man-portable weapon systems that expel projectiles 120mm and below that do not rely on direct line of sight between the weapon and its target. Maintenance is all action taken to retain materiel in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2111

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, access to AIS, and unit TO&E.

STANDARD: To return equipment to serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Conduct initial inspection.
3. Troubleshoot, as needed.
4. Determine maintenance actions required.
5. Perform required maintenance actions.
6. Document maintenance actions into AIS.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCO 4400.150 Consumer-Level Supply Policy
 3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
 4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 5. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 6. MCTP 3-40E Maintenance Operations
 7. TM 4700-15/1_ Ground Equipment Record Procedures
 8. UM 4400.125 GCSS-MC User Manual
-

2111-MAIN-1003: Perform maintenance on direct fire weapon systems

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

READINESS-CODED: NO

DESCRIPTION: Direct fire weapon systems are man-portable weapon systems that expel projectiles .50 caliber and below that rely on direct line of sight between the weapon and its target. Maintenance is all action taken to retain materiel in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2111

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, access to AIS, and unit TO&E equipment.

STANDARD: To return equipment to serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Conduct initial inspection.
3. Troubleshoot, as needed.
4. Determine maintenance actions required.
5. Perform required maintenance actions.
6. Document maintenance actions into AIS.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4400.150 Consumer-Level Supply Policy
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
5. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
6. MCTP 3-40E Maintenance Operations
7. TM 4700-15/1_ Ground Equipment Record Procedures
8. UM 4400.125 GCSS-MC User Manual

7004. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2111-MAIN-2001	NO	Perform maintenance on trainer launchers	7-5
2111-MAIN-2002	NO	Perform maintenance on non-standard weapon systems	7-6

7005. 2000-LEVEL EVENTS

2111-MAIN-2001: Perform maintenance on trainer launchers

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

READINESS-CODED: NO

DESCRIPTION: Trainer launcher systems are designed to replicate the operation of weapon systems through the use of a reduced caliber munition, while still expending a projectile. These can be stand-alone systems or components of larger systems meant to be inserted or interchanged into existing systems. Maintenance is all action taken to retain materiel in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2111

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, access to AIS, and unit TO&E equipment.

STANDARD: To return equipment to serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Conduct initial inspection.
3. Troubleshoot, as needed.
4. Determine maintenance actions required.
5. Perform required maintenance actions.
6. Document maintenance actions into AIS.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4400.150 Consumer-Level Supply Policy
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
5. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
6. MCTP 3-40E Maintenance Operations
7. MCWP 4-11.4 Maintenance Operations
8. TM 4700-15/1_ Ground Equipment Record Procedures
9. UM 4400.125 GCSS-MC User Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, para 11020.

2111-MAIN-2002: Perform maintenance on non-standard weapon systems

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

READINESS-CODED: NO

DESCRIPTION: Non-standard are stated as weapons that are not a program of record. Not limited to but including foreign weapons and historical weapons.

MOS PERFORMING: 2111

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, access to AIS, and unit TO&E equipment.

STANDARD: To return equipment to serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Conduct initial inspection.
3. Troubleshoot, as needed.
4. Determine maintenance actions required.
5. Perform required maintenance actions.
6. Document maintenance actions into AIS.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4400.150 Consumer-Level Supply Policy
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps

4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
5. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
6. MCTP 3-40E Maintenance Operations
7. TM 4700-15/1_ Ground Equipment Record Procedures
8. UM 4400.125 GCSS-MC User Manual

GRDORDMAINT T&R MANUAL

CHAPTER 8

MOS 2112 INDIVIDUAL EVENTS

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CHAPTER 8

MOS 2112 INDIVIDUAL EVENTS

8000. PURPOSE. This Chapter details the individual events that pertain to MOS 2112 Precision Weapons Repairer/Technician events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

8001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2112	Precision Weapons Repairer/Technician

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
MACH	Machine
MAIN	Maintenance

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
2000	Core Plus Skills

8002. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2112-MACH-2001	NO	Perform fabrication operations	8-3
2112-MAIN-2001	NO	Perform maintenance on non-standard weapons	8-3
2112-MAIN-2002	NO	Perform maintenance on precision weapons	8-5
2112-MAIN-2003	NO	Build non-standard weapons	8-6
2112-MAIN-2004	NO	Build precision weapons	8-7
2112-MAIN-2005	NO	Perform depot level maintenance	8-8

8003. 2000-LEVEL EVENTS

2112-MACH-2001: Perform fabrication operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: The individual is required to fabricate work piece within a blueprint specification utilizing high precision Computer Numerical Control (CNC) and manual machines, tools and equipment. Fabrication may include but is not limited to subtractive manufacturing, additive manufacturing, heat treating operations and metal refinishing operations.

MOS PERFORMING: 2112

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, equipment, references, TO&E and access to AIS.

STANDARD: To ensure work piece is within blueprint specifications.

PERFORMANCE STEPS:

1. Analyze or draft shop drawing(s).
2. Determine appropriate tools/equipment/material.
3. Fabricate work piece.
4. Perform quality control.
5. Conduct Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative actions and records.

REFERENCES:

1. 29 CFR 1910.1200 Title 29 Code of Federal Regulations, Hazard Communication
 2. 3rd Edition Blueprint Reading
 3. EngDraw Interpreting Engineering Drawings
 4. EOM Equipment Operators Manual
 5. Machinist Handbook Machinist Handbook
 6. MCO 5100.29_DELETE Marine Corps Safety Program
 7. MCO 5100.8_Marine Corps Occupational Safety and Health (OSH) Policy Order
 8. MCO P5090.2_Environmental Compliance and Protection Manual
 9. MCTP 3-40E Maintenance Operations
 10. TC 9-524 Fundamentals of Machine Tools
 11. TM 9-243_Use and Care of Hand Tools and Measuring Tools
 12. TM 9-3405-205-14&P U Saw Band Metal Cutting Mod
 13. TSM Technical Shop Mathematics
-

2112-MAIN-2001: Perform maintenance on non-standard weapons

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

READINESS-CODED: NO

DESCRIPTION: Maintenance may include all repairs, adjustments, modifications and re-builds to return the item to a serviceable or like new condition. Maintenance may require the use of high precision and standard machining equipment, metal refinishing equipment, metal working equipment, and weapons testing facility.

MOS PERFORMING: 2112

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, equipment, references, TO&E and access to AIS.

STANDARD: To return all equipment to a serviceable condition or to a like new condition in accordance with the technical manual or rebuild standard.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Conduct initial inspection.
3. Troubleshoot, as needed.
4. Determine maintenance actions required.
5. Perform required maintenance actions.
6. Perform fabrication/machining actions as required.
7. Proof, Function and accuracy test as required.
8. Document maintenance actions into AIS.

REFERENCES:

1. MCTP 3-40E Maintenance Operations
2. TI 8005-24/20E Trigger Weight Measurements and Pre-fire inspection Small Arms Weapons, Ordnance Material
3. TM 4700-15/1_ Ground Equipment Record Procedures
4. TM 8370-50037-IN/4 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR LIGHT MACHINE GUN, 7.62 MM, RPD
5. TM 8370-50047-IN/6 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR RIFLE, 5.45 MM, AK-74
6. TM 8370-50097-IN/16 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR SNIPER RIFLE, 7.62 x 54R MM, SVD
7. TM 8370-50107-IN/18 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR MACHINE GUN, 7.62 X 54R MM, PKM
8. TM 8370-50117-IN/20 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR RIFLE, 7.62 MM, G-3
9. TM 8370-50127-IN/22 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR RIFLE, 7.62 MM, FN FAL
10. TM 8370-50137-IN/24 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR LAUNCHER, ROCKET PROPELLED GRENADE, 40 MM, RPG-7V

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Non-standard weapons include but are not limited to: foreign weapons, historical weapons, non-program of record weapons, and Competition in Arms Program (CIAP) weapons.

2112-MAIN-2002: Perform maintenance on precision weapons

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

READINESS-CODED: NO

DESCRIPTION: Maintenance may include all repairs, adjustments, modifications and re-builds to return the item to a serviceable or like new condition. Maintenance may require the use of high precision and standard machining equipment, metal refinishing equipment, metal working equipment, and weapons testing facility.

MOS PERFORMING: 2112

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, equipment, references, TO&E and access to AIS.

STANDARD: To return all equipment to a serviceable condition or to a like new condition in accordance with the technical manual or rebuild standard.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Conduct initial inspection.
3. Troubleshoot, as needed.
4. Determine maintenance actions required.
5. Perform required maintenance actions.
6. Perform fabrication/machining actions as required.
7. Proof, Function and accuracy test as required.
8. Document maintenance actions into AIS.

REFERENCES:

1. 1-10 Precision Weapons Section Policy Letter 1-10
2. 40X Model 40x Field Service Manual Model
3. ATDP Appropriate Technical Data Package
4. MCTP 3-40E Maintenance Operations
5. PWRC Current Precision Pistol Build/Rebuild Procedures
6. PWRC Current Precision Sniper Rifle Build/Rebuild Procedures
7. RBP Current National Match Rifle Build / Rebuild Procedures
8. RS 05539-DE Rebuild Standard
9. Smith & Wesson Owner's Manual Model 41
10. TI 8005-24/20E Trigger Weight Measurements and Pre-fire inspection Small Arms Weapons, Ordnance Material
11. TM 05538C-23&P/2 RIFLE 5.56MM M16A2 W/E
12. TM 05539-IN M40A5 SNIPER RIFLE
13. TM 05539-OR M40A5 Sniper Rifle
14. TM 4700-15/1_ Ground Equipment Record Procedures

15. TM 9-1005-206-14P/4 Operator's Organizational Direct Support and General Support Maintenance Repair Parts and Special Tools Manual.
16. TM 9-1005-211-35 M1911A1 Maintenance Manual

2112-MAIN-2003: Build non-standard weapons

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

READINESS-CODED: NO

DESCRIPTION: Building of non-standard weapons includes all maintenance actions to place a new piece of equipment into service. It may involve research and development, procurement of non-program of record parts to include serialized items. The weapons will be built using high precision and standard machining equipment, metal refinishing equipment, metal working equipment, and weapons testing facility.

MOS PERFORMING: 2112

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, equipment, references, TO&E and access to AIS.

STANDARD: To provide a serviceable weapon in accordance with the current build procedure.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Conduct initial inspection.
3. Perform required maintenance actions.
4. Perform fabrication/machining actions.
5. Perform metal refinishing actions.
6. Proof, function and accuracy test.
7. Document maintenance actions into AIS as required.

REFERENCES:

1. MCTP 3-40E Maintenance Operations
2. TI 8005-24/20E Trigger Weight Measurements and Pre-fire inspection Small Arms Weapons, Ordnance Material
3. TM 4700-15/1 Ground Equipment Record Procedures
4. TM 8370-50037-IN/4 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR LIGHT MACHINE GUN, 7.62 MM, RPD
5. TM 8370-50047-IN/6 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR RIFLE, 5.45 MM, AK-74
6. TM 8370-50097-IN/16 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR SNIPER RIFLE, 7.62 x 54R MM, SVD
7. TM 8370-50107-IN/18 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR MACHINE GUN, 7.62 X 54R MM, PKM
8. TM 8370-50117-IN/20 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR RIFLE, 7.62 MM, G-3
9. TM 8370-50127-IN/22 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS

- LIST FOR RIFLE, 7.62 MM, FN FAL
10. TM 8370-50137-IN/24 ORGANIZATIONAL MAINTENANCE MANUAL WITH REPAIR PARTS LIST FOR LAUNCHER, ROCKET PROPELLED GRENADE, 40 MM, RPG-7V
-

2112-MAIN-2004: Build precision weapons

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

READINESS-CODED: NO

DESCRIPTION: Building precision weapons includes all maintenance actions to place a new piece of equipment into service. It may involve research and development, procurement of non-program of record parts to include serialized items. The weapons will be built using high precision and standard machining equipment, metal refinishing equipment, metal working equipment, and weapons testing facility.

MOS PERFORMING: 2112

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, equipment, references, TO&E and access to AIS.

STANDARD: To provide a serviceable weapon in accordance with the current build procedure.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Conduct initial inspection.
3. Perform required maintenance actions.
4. Perform fabrication/machining actions.
5. Perform metal refinishing actions.
6. Proof, function and accuracy test.
7. Document maintenance actions into AIS as required.

REFERENCES:

1. 1-10 Precision Weapons Section Policy Letter 1-10
2. 40X Model 40x Field Service Manual Model
3. ATDP Appropriate Technical Data Package
4. MCTP 3-40E Maintenance Operations
5. PWRC Current Precision Pistol Build/Rebuild Procedures
6. PWRC Current Precision Sniper Rifle Build/Rebuild Procedures
7. RBP Current National Match Rifle Build / Rebuild Procedures
8. RS 05539-DE Rebuild Standard
9. Smith & Wesson Owner's Manual Model 41
10. TI 8005-24/20E Trigger Weight Measurements and Pre-fire inspection Small Arms Weapons, Ordnance Material
11. TM 05538C-23&P/2 RIFLE 5.56MM M16A2 W/E
12. TM 05539-IN M40A5 SNIPER RIFLE
13. TM 05539-OR M40A5 Sniper Rifle
14. TM 4700-15/1_ Ground Equipment Record Procedures

15. TM 9-1005-206-14P/4 Operator's Organizational Direct Support and General Support Maintenance Repair Parts and Special Tools Manual.
16. TM 9-1005-211-35 M1911A1 Maintenance Manual

2112-MAIN-2005: Perform depot level maintenance

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

READINESS-CODED: NO

DESCRIPTION: Maintenance actions taken on material involving the inspection, repair, overhaul, or the modification or reclamation (as necessary) of weapons systems, equipment end items, parts, components, assemblies, and sub-assemblies that are beyond field maintenance capabilities, and/or are authorized and directed by DC I&L.

MOS PERFORMING: 2112

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, equipment, references, TO&E and access to AIS.

STANDARD: To return equipment to serviceable condition in accordance with applicable technical references.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Conduct initial inspection.
3. Perform required maintenance actions.
4. Perform fabrication/machining actions.
5. Perform metal refinishing actions.
6. Proof, function and accuracy test as required.
7. Document maintenance actions into AIS as required.

REFERENCES:

1. 1-10 Precision Weapons Section Policy Letter 1-10
2. 40X Model 40x Field Service Manual Model
3. ATDP Appropriate Technical Data Package
4. MCTP 3-40E Maintenance Operations
5. PWRC Current Precision Pistol Build/Rebuild Procedures
6. PWRC Current Precision Sniper Rifle Build/Rebuild Procedures
7. RBP Current National Match Rifle Build / Rebuild Procedures
8. RS 05539-DE Rebuild Standard
9. Smith & Wesson Owner's Manual Model 41
10. TI 8005-24/20E Trigger Weight Measurements and Pre-fire inspection Small Arms Weapons, Ordnance Material
11. TM 05538C-23&P/2 RIFLE 5.56MM M16A2 W/E
12. TM 05539-IN M40A5 SNIPER RIFLE
13. TM 05539-OR M40A5 Sniper Rifle
14. TM 4700-15/1 Ground Equipment Record Procedures
15. TM 9-1005-206-14P/4 Operator's Organizational Direct Support and General

- Support Maintenance Repair Parts and Special Tools Manual.
16. TM 9-1005-211-35 M1911A1 Maintenance Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Depot level maintenance will only be conducted at Precision Weapons Section (PWS), Weapons Training Battalion, Quantico, VA. PWS may conduct depot level maintenance on any equipment it is manned, trained, and equipped for.

GRDORDMAINT T&R MANUAL

CHAPTER 9

MOS 2120 INDIVIDUAL EVENTS

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CHAPTER 9

MOS 2120 INDIVIDUAL EVENTS

9000. PURPOSE

Refer to Chapter 4 for 21XX Ground Ordnance Maintenance common individual training events for which 2120 Weapons Repair Officers are responsible.

The two tasks listed under MOS 2125, Chapter 10, also fall under the responsibilities of 2120's who own most of these assets are responsible for maintenance within the armories. Especially as the Radiological program is becoming more involved in the better accountability and training that is required for armory personnel that handle and control these assets.

9001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2120	Weapons Repair Officer

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
OPS	Operations
PROG	Programs

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
2000	Core Plus Skills

9002. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2120-OPS-2001	NO	Direct ground ordnance weapons operations	9-3
2120-PROG-2001	NO	Direct ground ordnance weapons maintenance programs	9-3

9003. 2000-LEVEL EVENTS

2120-OPS-2001: Direct ground ordnance weapons operations

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to: physical security, Arms Ammunition and Explosive (AA&E) programs, safety programs, and Armory Operations.

MOS PERFORMING: 2120

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, established policy and access to AIS.

STANDARD: To ensure compliance with policies and procedures for operations related to ground ordnance resources.

PERFORMANCE STEPS:

1. Control storage of AA&E.
2. Control issue and recover AA&E.
3. Control accountability of serialized/non-serialized assets.
4. Control completion of required NAVMC forms, records and AIS.
5. Control compliance with armory security procedures.
6. Control the transport of AA&E assets.
7. Control ground ordnance safety programs.
8. Facilitate redistribution and fielding of equipment.

REFERENCES:

1. MCO 11262.2_ Standard Policy for Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCO 5500.6_ Arming of Law Enforcement and Security Personnel and the Use of Force
5. MCO 5530.14_ Marine Corps Physical Security Program Manual
6. MCO 8400.6 Licensing Procedures for Ordnance Vehicles
7. MCRP 4-11.3F Convoy Operations Handbook
8. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
9. MCWP 4-11.4 Maintenance Operations

2120-PROG-2001: Direct ground ordnance weapons maintenance programs

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to: Infantry Weapons Gauge Calibrations Program (IWGCP), and Enterprise life cycle management program (ELMP).

MOS PERFORMING: 2120

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, TO&E, access to AIS.

STANDARD: To prioritize and manage maintenance resources, increase equipment availability through the management of a comprehensive maintenance effort.

PERFORMANCE STEPS:

1. Analyze mission requirements.
2. Assess capabilities.
3. Determine resource requirements.
4. Coordinate resource requirements.
5. Manage maintenance reporting.

REFERENCES:

1. MCO 11262.2_ Standard Policy for Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCO 8400.6 Licensing Procedures for Ordnance Vehicles
5. MCRP 4-11.3F Convoy Operations Handbook
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
7. MCWP 4-11.4 Maintenance Operations

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CHAPTER 10

MOS 2125 INDIVIDUAL EVENTS

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2000-LEVEL EVENTS	10003	10-2

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CHAPTER 10

MOS 2125 INDIVIDUAL EVENTS

10000. PURPOSE. This chapter details the individual events that pertain to MOS 2125 Electro-Optic Instrument Repair Officer events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

10001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2125	Electro-Optic Instrument Repair Officer

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
OPS	Operations
PROG	Programs

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
2000	Core Plus Skills

10002. INDEX 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2125-OPS-2001	NO	Direct electro-optical equipment operations	10-2
2125-PROG-2001	NO	Direct electro-optical equipment maintenance programs	10-3

10003. 2000-LEVEL EVENTS

2125-OPS-2001: Direct electro-optical equipment operations

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to physical security and safety programs.

MOS PERFORMING: 2125

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, established policy, TO&E assets and access to AIS.

STANDARD: To ensure compliance with policies and procedures for operations related to Electro-optical equipment and resources.

PERFORMANCE STEPS:

1. Control storage of Electro-Optical Equipment.
2. Control issue and recover Electro-Optical Equipment.
3. Control accountability of serialized/non-serialized assets.
4. Control completion of required NAVMC forms, records and AIS.
5. Control compliance with security procedures.
6. Control the transport of electro-optical assets.
7. Control safety programs.
8. Facilitate redistribution and fielding of equipment.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCO 5104.1_ Navy LASER Hazards Control Program
4. MCO 5104.3_ Marine Corps Radiation Safety Program
5. MCO 5500.6_ Arming of Law Enforcement and Security Personnel and the Use of Force
6. MCO 5530.14_ Marine Corps Physical Security Program Manual
7. MCTP 3-40E Maintenance Operations
8. MCWP 4-11.4 Maintenance Operations

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a billet requirement to attend training at an ALA/LNTL-approved Technical Laser Safety Officer (TLSO) course.

2125-PROG-2001: Direct electro-optical equipment maintenance programs

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to: Survey instrument calibration program, Enterprise Lifecycle Management Program (ELMP), warranty management, and micro-miniature electronics repair.

MOS PERFORMING: 2125

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, TO&E, and access to AIS.

STANDARD: To prioritize and manage electro-optic maintenance resources, increase equipment availability through the management of a comprehensive maintenance effort.

PERFORMANCE STEPS:

1. Analyze mission requirements.
2. Assess capabilities.
3. Determine resource requirements.
4. Coordinate resource requirements.
5. Manage maintenance reporting.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCO 5104.1_ Navy LASER Hazards Control Program
4. MCO 5104.3_ Marine Corps Radiation Safety Program
5. MCTP 3-40E Maintenance Operations
6. MCWP 4-11.4 Maintenance Operations

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a billet requirement to attend training at an ALA/LNTL-approved Technical Laser Safety Officer (TLSO) course.

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CHAPTER 11

MOS 2131 INDIVIDUAL EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
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INDEX OF 2000-LEVEL INDIVIDUAL EVENTS	11004	11-5
2000-LEVEL EVENTS	11005	11-5

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CHAPTER 11

MOS 2131 INDIVIDUAL EVENTS

11000. PURPOSE. This chapter details the individual events that pertain to MOS 2131 Towed Artillery Systems Technician events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

11001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2131	Towed Artillery Systems Technician

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
MAIN	Maintenance
MED	Medical
OPS	Operations

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
1000	Core Skills
2000	Core Plus Skills

11002. INDEX OF 1000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2131-MAIN-1001	NO	Perform maintenance on M777 Howitzer platforms	11-3
2131-MAIN-1002	NO	Perform maintenance on secondary repairable components of the M777 howitzer	11-3
2131-MED-1001	NO	Evacuate a casualty from the bed of MTRV	11-4

11003. 1000-LEVEL EVENTS

2131-MAIN-1001: Perform maintenance on M777 Howitzer platforms

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

READINESS-CODED: NO

DESCRIPTION: Maintenance is all action taken to retain materiel in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2131

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, access to AIS, and unit TO&E.

STANDARD: To return equipment to serviceable condition in accordance with applicable technical references.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Conduct initial inspection.
3. Troubleshoot, as needed.
4. Determine maintenance actions required.
5. Perform required maintenance actions.
6. Document maintenance actions into AIS.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCTP 3-40E Maintenance Operations
5. TM 00640A-13&P/1 MS Pullover Gage, Complete (Kit)
6. TM 10407A-10-1 Operator's Manual, Howitzer, Medium, Towed 155-MM, M777
7. TM 10407A-25&P/2 Equipment Maintenance and Repair Parts Manual, Howitzer, Medium, Towed 155-MM, M777
8. TM 4700-15/1_ Ground Equipment Record Procedures
9. TM 9-1000-202-14 EVALUATION OF CANNON TUBES
10. UM 4400.125 GCSS-MC User Manual

2131-MAIN-1002: Perform maintenance on secondary repairable components of the M777 howitzer

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

READINESS-CODED: NO

DESCRIPTION: Secondary Repair will consist of, but not limited to conducting maintenance on the following components: trunnion pump, breach actuator, equilibrator, recoil buffer, and accumulator cylinder; scavenge system, elevation/traverse gear box, brake systems, hydro strut, and the suspension pump.

MOS PERFORMING: 2131

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, access to AIS, and unit TO&E.

STANDARD: To return equipment to serviceable condition in accordance with applicable technical references.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Conduct initial inspection.
3. Troubleshoot, as needed.
4. Determine maintenance actions required.
5. Perform required maintenance actions.
6. Document maintenance actions into AIS.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4400.150 Consumer-Level Supply Policy
3. MCO 4400.201 Management of Property in the Possession of the Marine Corps
4. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
5. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
6. MCTP 3-40E Maintenance Operations
7. TM 10407A-10-1 Operator's Manual, Howitzer, Medium, Towed 155-MM, M777
8. TM 10407A-25&P/2 Equipment Maintenance and Repair Parts Manual, Howitzer, Medium, Towed 155-MM, M777
9. TM 4700-15/1_ Ground Equipment Record Procedures
10. TM 750-116 General Procedures for Purge and Charge
11. UM 4400.125 GCSS-MC User Manual

2131-MED-1001: Evacuate a casualty from the bed of MTRV

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

READINESS-CODED: NO

MOS PERFORMING: 2131

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an MTRV and all associated equipment.

STANDARD: In accordance with MCWP3-12.2.

PERFORMANCE STEPS:

1. Establish security.
2. Report casualty to next highest echelon.
3. Provide required triage/casualty care.
4. Prepare casualty for transport to extraction point.
5. Evacuate the casualty.

REFERENCES:

1. MCTP 3-40A Health Service Support Operations
2. MCWP 4-11.3A Patient Movement

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a MOS Specific Physical Standard required for the MOS of 2131. See Appendix D for further detail.

11004. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2131-OPS-2001	NO	Operate shop equipment contact maintenance (SECM) vehicle	11-5
2131-OPS-2002	NO	Operate artillery mobile expandable container (AEMC)	11-6

11005. 2000-LEVEL EVENTS

2131-OPS-2001: Operate shop equipment contact maintenance (SECM) vehicle

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

READINESS-CODED: NO

MOS PERFORMING: 2131

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mission requirement, equipment, and with the aid of references.

STANDARD: To ensure mission requirements are supported in accordance with MCWP 4-11.4 Maintenance Operations.

PERFORMANCE STEPS:

1. Obtain required vehicle licensing.
2. Coordinate required support.
3. Perform operator check out/in procedures.
4. Establish security.
5. Employ maintenance support, as needed.

6. Redeploy equipment.

REFERENCES :

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCTP 3-40E Maintenance Operations
 3. TM 4700-15/1_ Ground Equipment Record Procedures
 4. TM 750-116 General Procedures for Purge and Charge
 5. UM 4400.125 GCSS-MC User Manual
-

2131-OPS-2002: Operate artillery mobile expandable container (AEMC)

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

READINESS-CODED: NO

DESCRIPTION: The individual is required to set up and operate the Artillery EMC

MOS PERFORMING: 2131

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a mission requirement, equipment, and with the aid of references.

STANDARD: To ensure AEMC is prepared and ready for operation.

PERFORMANCE STEPS:

1. Determine area of operation.
2. Set up shelters.
3. Set up equipment.
4. Conduct an operations check.
5. Retrograde shelters/equipment, when applicable.
6. Conduct Preventive Maintenance Checks and Services (PMCS).
7. Complete maintenance and/or administrative forms and records.

REFERENCES :

1. TM 09105C-OI/1 Artillery Mobile Expandable Container
2. TM 4700-15/1_ Ground Equipment Record Procedures
3. UM 4400.125 GCSS-MC User Manual

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CHAPTER 12

MOS 2141 INDIVIDUAL EVENTS

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CHAPTER 12

MOS 2141 INDIVIDUAL EVENTS

12000. PURPOSE. This chapter details the individual events that pertain to MOS 2141 Assault Amphibious Vehicle (AAV) Repairer/Technician events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

12001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2141	Assault Amphibious Vehicle (AAV) Repairer/Technician

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
MAIN	Maintenance
MED	Medical
OPS	Operations
VOPS	Vehicle Operations

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
1000	Core Skills
2000	Core Plus Skills

12002. INDEX OF 1000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2141-MAIN-1001	NO	Perform field level maintenance on AAV FOV Up Gunned Weapon Station (UGWS)	12-3
2141-MAIN-1002	NO	Conduct field level corrective maintenance on AAV FOV suspension system	12-4
2141-MAIN-1003	NO	Conduct field level corrective maintenance of AAV FOV power plant	12-5
2141-MAIN-1004	NO	Conduct field level corrective maintenance	12-5

		of AAV FOV transmission	
2141-MAIN-1005	NO	Conduct field level corrective maintenance on AAV FOV engine	12-6
2141-MAIN-1006	NO	Conduct field level corrective maintenance of AAV FOV cooling tower assembly	12-7
2141-MAIN-1007	NO	Conduct field level corrective maintenance on AAV FOV final drive assembly	12-8
2141-MAIN-1008	NO	Conduct field level corrective maintenance on AAV FOV hydraulic system	12-8
2141-MAIN-1009	NO	Conduct field level corrective maintenance on AAV FOV electrical system	12-9
2141-MAIN-1010	NO	Conduct field level corrective maintenance on AAV FOV fuel system	12-10
2141-MAIN-1011	NO	Conduct field level corrective maintenance on AAV FOV ancillary systems	12-10
2141-MAIN-1012	NO	Operate recovery unique equipment	12-11
2141-MED-1001	NO	Perform individual actions to evacuate injured crewman	12-12
2141-VOPS-1001	NO	Egress the AAV	12-13

12003. 1000-LEVEL EVENTS

2141-MAIN-1001: Perform field level maintenance on AAV FOV Up Gunned Weapon Station (UGWS)

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To return equipment to serviceable condition in accordance with technical references.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES :

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TI 09674A OD/1 PMCS, LI & OPERATIONAL CHECKLISTS FOR THE AAVs, FOVs
5. TM 07267B-10/1_ Operator's Manual, AAVR7A1.
6. TM 07268B-10/1E Assault Amphibious Vehicle, Command, Model 7A1 (AAVC7A1) Supplement to TM 09674A-10/3
7. TM 09674A-10/3_ Operator's Manual, AAV 7A1 FOV
8. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV

MISCELLANEOUS :

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, para 11020.

2141-MAIN-1002: Conduct field level corrective maintenance on AAV FOV suspension system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES :

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV

2141-MAIN-1003: Conduct field level corrective maintenance of AAV FOV power plant

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCTP 3-40E Maintenance Operations
2. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
3. TM 10004A-25&P/2_ Maintenance Instruction, Up Gunned Weapons Station (UGWS) AAVP7A1
4. TM 8F152-25&P/_ Vol 1-2 Maintenance Instruction, Power Plant Assembly AAV 7A1 FOV

2141-MAIN-1004: Conduct field level corrective maintenance of AAV FOV transmission

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCTP 3-40E Maintenance Operations
 2. TM 09674A-25&P/4_Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 3. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS
-

2141-MAIN-1005: Conduct field level corrective maintenance on AAV FOV engine

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.

8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
 2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
 3. MCTP 3-40E Maintenance Operations
 4. TM 09674A-25&P/4 Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 5. TM 8F152-25&P/ Vol 1-2 Maintenance Instruction, Power Plant Assembly AAV 7A1 FOV
-

2141-MAIN-1006: Conduct field level corrective maintenance of AAV FOV cooling tower assembly

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
 2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
 3. MCTP 3-40E Maintenance Operations
 4. TM 09674A-25&P/4 Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 5. TM 8F152-25&P/ Vol 1-2 Maintenance Instruction, Power Plant Assembly AAV 7A1 FOV
-

2141-MAIN-1007: Conduct field level corrective maintenance on AAV FOV final drive assembly

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance
2. Determine applicable technical references.
3. Conduct initial inspection
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
5. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS

2141-MAIN-1008: Conduct field level corrective maintenance on AAV FOV hydraulic system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 3. MCTP 3-40E Maintenance Operations
 4. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
-

2141-MAIN-1009: Conduct field level corrective maintenance on AAV FOV electrical system

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

READINESS-CODED: NO

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES :

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 3. MCTP 3-40E Maintenance Operations
 4. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 5. TM 8F152-25&P/_ Vol 1-2 Maintenance Instruction, Power Plant Assembly AAV 7A1 FOV
-

2141-MAIN-1010: Conduct field level corrective maintenance on AAV FOV fuel system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Determine maintenance actions.
5. Requisition parts.
6. Perform required maintenance actions.
7. Document maintenance actions.
8. Conduct quality control.
9. Return equipment to owner.

REFERENCES :

1. MCTP 3-40E Maintenance Operations
 2. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 3. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 4. TM 8F152-25&P/_ Vol 1-2 Maintenance Instruction, Power Plant Assembly AAV 7A1 FOV
-

2141-MAIN-1011: Conduct field level corrective maintenance on AAV FOV ancillary systems

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition. Systems include ventilation, mechanical controls/linkages, fire suppression, bilge and water propulsion systems.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
5. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
6. TM 12906A/13005A-25&P/1 Assault Amphibious Vehicle, Family of vehicles, Model 7A2, Hull Repair and Maintenance Manual (Field and Depot)
7. TM 12906A/13005A-25&P/2 Assault Amphibious Vehicle, Family of Vehicles, Model 7A2, Power Plant Repair and Maintenance Manual (Field and Depot)
8. TM 8F152-25&P/_ Vol 1-2 Maintenance Instruction, Power Plant Assembly AAV 7A1 FOV

2141-MAIN-1012: Operate recovery unique equipment

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Ground Ordnance Vehicle maintainers are required by MOS to be able to operate all of the AAV recovery variant unique equipment. This includes the air compressor, welder, winch, crane, fairlead, magnetic clutch, recovery vehicle unique hydraulic system and AC power electrical system.

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an AAV recovery variant and as a member of a crew.

STANDARD: To prevent personnel injury and equipment damage.

PERFORMANCE STEPS:

1. Perform PMCS on maintenance and recovery equipment.
2. Operate hydraulic pump.
3. Operate winch.
4. Operate crane.
5. Operate alternating current (AC) generator.
6. Operate air compressor.
7. Operate floodlights/work lights.
8. Prepare welding equipment.

REFERENCES:

1. TM 07267B-10/1_ Operator's Manual, AAVR7A1.
2. TM 09674A-10/3_ Operator's Manual, AAV 7A1 FOV

2141-MED-1001: Perform individual actions to evacuate injured crewman

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

READINESS-CODED: NO

BILLETS: Driver, Third Crewman, Vehicle Commander

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: As crew member, Given an AAV/FOV, all associated equipment, and crew.

STANDARD: To remove injured personnel without causing additional harm.

PERFORMANCE STEPS:

1. Stabilize injured crewman through self-aid/buddy-aid.
2. Send casualty report to higher.
3. Select most appropriate hatch and path of evacuation.
4. Evacuate injured crewman from vehicle.

REFERENCES:

1. MCRP 3-10B.2 Heavy Brigade Combat Team (HBCT) Gunnery

2. ST 3-20.21-1 Individual and Crew Live-Fire Prerequisite Testing

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a MOS Specific Physical Standard required for the MOS of 2141. See Appendix D for further detail.

2141-VOPS-1001: Egress the AAV

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

READINESS-CODED: NO

MOS PERFORMING: 2141

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a rapidly sinking or submerged AAV.

STANDARD: In order to reach the surface of the water.

PERFORMANCE STEPS:

1. Unfasten seatbelt.
2. Unlock assigned hatch.
3. Employ life support equipment as required.
4. Exit vehicle.
5. Swim to surface.

REFERENCES:

1. TM 07267B-10/1A Amphibious Assault Vehicle, Recovery, Model 7A1, AAVR7A1
2. TM 09674A-10/3 Amphibious Assault Vehicle, Personnel Operators' Manual

SUPPORT REQUIREMENTS:

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. The Shallow Water Initial Memory Mechanical Exit Release (SWIMMER) and the Shallow Water Egress Trainer (SWET) is utilized by the Naval Survival Training Institute (NSTI) as part of their egress training continuum to increase Marines comfort in the water as well as their proficiency in SVET and AAV egress. SWIMMER and SWET are available at all 8 NSTI training sites, but are not currently utilized by the Marine Corps. If possible, unit training shall include SWIMMER and SWET training prior to using the SVET.
2. Reserve training will take place at Initial Location for Mobilization (ILOC) or during two week annual training (AT).

12004. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
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2141-MAIN-2001	NO	Perform field level intermediate maintenance on AAV personnel variant armament system	12-14
2141-MAIN-2002	NO	Conduct field level intermediate maintenance AAVR7A1 unique equipment	12-15
2141-MAIN-2003	NO	Conduct field level intermediate maintenance on track tension adjuster	12-16
2141-MAIN-2004	NO	Conduct field level intermediate maintenance on hydraulic cylinders	12-17
2141-MAIN-2005	NO	Conduct field level intermediate maintenance on AAV FOV transmission assembly	12-17
2141-MAIN-2006	NO	Conduct field level intermediate maintenance on AAV FOV power take-off assembly	12-18
2141-MAIN-2007	NO	Conduct field level intermediate maintenance on AAV FOV engine	12-19
2141-MAIN-2008	NO	Conduct field level intermediate maintenance AAV FOV final drive assembly	12-20

12005. 2000-LEVEL EVENTS

2141-MAIN-2001: Perform field level intermediate maintenance on AAV personnel variant armament system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition. Repair will be conducted the following AAV FOV components but not limited to: Elevation mechanism, equilibrator, slip ring, weapons control box, power control box, power traverse box, and power traverse mechanism.

MOS PERFORMING: 2141

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.

9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 3. MCTP 3-40E Maintenance Operations
 4. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 5. SL-3-07430B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 6. TM 09674A-10/3_ Operator's Manual, AAV 7A1 FOV
 7. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 8. TM 12906A/13005A-25&P/1 Assault Amphibious Vehicle, Family of vehicles, Model 7A2, Hull Repair and Maintenance Manual (Field and Depot)
-

2141-MAIN-2002: Conduct field level intermediate maintenance AAVR7A1 unique equipment

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Document maintenance actions.
9. Conduct quality control.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles

5. SL-3-07430B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 6. TM 07267C-25&P/2 AAV R7A1 Recovery Vehicle
 7. TM 07268C-25&P/2 AAV C7A1
 8. TM 09674-25/4D Vol 1-4 w/ CH1
 9. TM 09674A-25&P/4 Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 10. TM 8F152B-25&P/4 Power Plant Assembly, AAV/FOV & RAM/RS
-

2141-MAIN-2003: Conduct field level intermediate maintenance on track tension adjuster

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Document maintenance actions.
9. Conduct quality control.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
5. SL-3-07430B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
6. TM 09674A-10/3 Operator's Manual, AAV 7A1 FOV
7. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
8. TM 12906A/13005A-10/1 Assault Amphibious Vehicle, Family of Vehicles, Model 7A2, Operator Manual (AAV7A2)
9. TM 12906A/13005A-25&P/1 Assault Amphibious Vehicle, Family of vehicles, Model 7A2, Hull Repair and Maintenance Manual (Field and Depot)

2141-MAIN-2004: Conduct field level intermediate maintenance on hydraulic cylinders

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition. This includes but is not limited to Bow Plane Actuator, Ramp Cylinder, Plenum Cylinder, and Water Steer Cylinders.

MOS PERFORMING: 2141

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Document maintenance actions.
9. Conduct quality control.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 3. MCTP 3-40E Maintenance Operations
 4. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 5. SL-3-07430B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 6. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
 7. TM 12906A/13005A-25&P/1 Assault Amphibious Vehicle, Family of vehicles, Model 7A2, Hull Repair and Maintenance Manual (Field and Depot)
-

2141-MAIN-2005: Conduct field level intermediate maintenance on AAV FOV transmission assembly

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
5. SL-3-07430B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
6. TM 12906A/13005A-25&P/2 Assault Amphibious Vehicle, Family of Vehicles, Model 7A2, Power Plant Repair and Maintenance Manual (Field and Depot)
7. TM 8F152B-25&P Power Plant Assembly

2141-MAIN-2006: Conduct field level intermediate maintenance on AAV FOV power take-off assembly

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCTP 3-40E Maintenance Operations
 2. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 3. SL-3-07430B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
 4. TM 8F152B-25&P Power Plant Assembly
-

2141-MAIN-2007: Conduct field level intermediate maintenance on AAV FOV engine

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.

4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES :

1. MCTP 3-40E Maintenance Operations
2. SL-3-07429B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
3. SL-3-07430B Tool Set, Field Level, Organizational Maintenance, for Assault Amphibious Vehicle, Family of Vehicles
4. TM 09674A-25&P/4 Assault Amphibious Vehicle, Personnel, Model 7A1
5. TM 8F152B-25&P Power Plant Assembly

2141-MAIN-2008: Conduct field level intermediate maintenance AAV FOV final drive assembly

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2141

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES :

1. MCTP 3-40E Maintenance Operations
2. TM 09674A-25&P/4_ Vol 1-4 Maintenance Instruction, AAV 7A1 FOV
3. TM 8F152-25&P/_ Vol 1-2 Maintenance Instruction, Power Plant Assembly AAV 7A1 FOV

GRDORDMAINT T&R MANUAL

CHAPTER 13

MOS 2146 INDIVIDUAL EVENTS

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GRDORDMAINT T&R MANUAL

CHAPTER 13

MOS 2146 INDIVIDUAL EVENTS

13000. PURPOSE. This chapter details the individual events that pertain to MOS 2146 Main Battle (MBT) Repairer/Technician events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful. In this manual the term Tank FOV includes M1A1, M88A2, AVLB, and ABV.

13001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2146	Main Battle Tank (MBT) Repairer/Technician

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
MAIN	Maintenance
MED	Medical
VOPS	Vehicle Operations

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
1000	Core Skills
2000	Core Plus Skills

13002. INDEX OF 1000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2146-MAIN-1001	NO	Conduct field level corrective maintenance on TANK FOV suspension System	13-3
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2146-MAIN-1003	NO	Conduct field level corrective maintenance on TANK FOV engine	13-6
2146-MAIN-1004	NO	Conduct field level corrective maintenance	13-8

		on TANK FOV final drive assembly	
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2146-MAIN-1007	NO	Conduct field level corrective maintenance on TANK FOV fuel system	13-14
2146-MAIN-1008	NO	Conduct field level corrective maintenance on TANK FOV ancillary systems	13-16
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2146-MAIN-1010	NO	Conduct Field Level corrective maintenance of TANK FOV transmission.	13-19
2146-MED-1001	NO	Perform individual actions to evacuate injured crewman	13-20
2146-VOPS-1001	NO	Operate commander's station on ABV	13-20

13003. 1000-LEVEL EVENTS

2146-MAIN-1001: Conduct field level corrective maintenance on TANK FOV suspension System

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition. The Tank FOV includes M1A1, M88A2, and AVLB/ABV chassis.

MOS PERFORMING: 2146

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)

3. MCTP 3-40E Maintenance Operations
4. TM 9-2350-264-10-1 Operators Manual, Operator Controls, PMCS, and Operation Under Usual Conditions, Volume 1 of 2, Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 2350-01-087-1095 General Abrams
5. TM 9-2350-264-10-2 Operator's Manual, Unusual Conditions, Troubleshooting, and Maintenance, Volume 2 of 2, Tank, Combat, Full-Tracked: 120-MM, M1A1 2350-01-087-1095, General Abrams
6. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
7. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
8. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
9. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
10. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
11. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
12. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
13. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
14. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
15. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
16. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
17. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
18. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
19. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
20. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
21. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
22. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
23. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
24. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
25. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
26. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
27. TM 9-2350-292-24P UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECOVERY VEHICLE, FULL-TRACKED: HEAVY M88A2
28. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2
29. UM 4400.125 GCSS-MC User Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, para 12020.

2146-MAIN-1002: Conduct field level corrective maintenance of TANK FOV power pack

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 9-2350-264-10-1 Operators Manual, Operator Controls, PMCS, and Operation Under Usual Conditions, Volume 1 of 2, Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 2350-01-087-1095 General Abrams
5. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
6. TM 9-2350-264-10-2 Operator's Manual, Unusual Conditions, Troubleshooting, and Maintenance, Volume 2 of 2, Tank, Combat, Full-Tracked: 120-MM, M1A1 2350-01-087-1095, General Abrams
7. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
8. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN

- 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
9. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
10. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
11. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
12. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
13. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
14. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
15. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
16. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
17. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
18. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
19. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
20. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
21. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
22. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
23. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
24. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
25. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
26. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
27. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
28. TM 9-2350-292-24P UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECOVERY VEHICLE, FULL-TRACKED: HEAVY M88A2
29. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2
30. UM 4400.125 GCSS-MC User Manual

2146-MAIN-1003: Conduct field level corrective maintenance on TANK FOV engine

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.25_Ground Equipment Maintenance Program (GEMP)
2. MCTP 3-40E Maintenance Operations
3. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
4. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
7. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
8. TM 5-5420-202-24P AVLB M60A1 TANK CHASSIS
9. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting
10. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
11. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
12. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
13. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
14. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
15. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
16. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
17. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
18. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
19. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN

- 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
20. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
 21. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
 22. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
 23. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
 24. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
 25. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
 26. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
 27. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
 28. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 29. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 30. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
 31. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
 32. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 33. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 34. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2
 35. UM 4400.125 GCSS-MC User Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: See Administrative Notes, para 12020.

2146-MAIN-1004: Conduct field level corrective maintenance on TANK FOV final drive assembly

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
5. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
7. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
8. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
9. TM 5-5420-202-20P ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR LAUNCHER AND M60A1 TANK CHASSIS, TRANSPORTING: FOR BRIDGE, ARMORED-VEHICLE-LAUNCHED; SCISSORING TYPE, CLASS 60 (5420-00-889-2020) REAR INTERPHONE SYSTEM
10. TM 5-5420-202-24P AVLB M60A1 TANK CHASSIS
11. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting
12. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
13. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
14. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
15. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
16. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
17. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
18. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
19. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
20. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
21. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
22. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
23. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN

- 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
- 24. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
- 25. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
- 26. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
- 27. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
- 28. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
- 29. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
- 30. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
- 31. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
- 32. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
- 33. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
- 34. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
- 35. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
- 36. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
- 37. TM 9-2350-292-24P UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECOVERY VEHICLE, FULL-TRACKED: HEAVY M88A2
- 38. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2
- 39. UM 4400.125 GCSS-MC User Manual

2146-MAIN-1005: Conduct field level corrective maintenance on TANK FOV hydraulic System

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
5. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
7. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
8. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
9. TM 5-5420-202-24P AVLB M60A1 TANK CHASSIS
10. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting
11. TM 9-2350-264-20-1-1 TANK, COMBAT, FULL-TRACKED,120-MM GUN, M1A1,HULL,VOLUME 1 OF 5
12. TM 9-2350-264-20-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,VOLUME 2 OF 5
13. TM 9-2350-264-20-1-3 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,VOLUME 3 OF 5
14. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
15. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
16. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
17. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
18. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
19. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
20. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
21. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
22. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
23. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
24. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
25. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7

26. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
 27. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
 28. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
 29. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 30. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
 31. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
 32. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
 33. TM 9-2350-292-10 OPERATOR'S MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 34. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 35. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 36. TM 9-2350-292-24P UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECOVERY VEHICLE, FULL-TRACKED: HEAVY M88A2
 37. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2
 38. UM 4400.125 GCSS-MC User Manual
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2146-MAIN-1006: Conduct field level corrective maintenance on TANK FOV electrical system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Determine maintenance actions.

5. Requisition parts.
6. Perform required maintenance actions.
7. Conduct quality control.
8. Document maintenance actions.
9. Return equipment to owner.

REFERENCES :

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
5. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
7. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
8. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
9. TM 5-5420-202-24P AVLB M60A1 TANK CHASSIS
10. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting
11. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
12. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
13. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
14. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
15. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
16. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
17. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
18. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
19. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
20. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
21. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
22. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
23. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
24. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
25. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
26. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
27. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
28. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
29. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN,

- M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
30. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 31. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
 32. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
 33. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
 34. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
 35. UM 4400.125 GCSS-MC User Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a MOS Specific Physical Standard required for the MOS of 2146. See Appendix D for further detail.

2146-MAIN-1007: Conduct field level corrective maintenance on TANK FOV fuel system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel to serviceable or operational condition.

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Determine maintenance actions.
5. Requisition parts.
6. Perform required maintenance actions.
7. Conduct quality control.
8. Document maintenance actions.
9. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)

2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 10984A-OI/2-1 Repair Parts and Special Tools List (RPSTL) (ABV)
5. TM 10984A-OI/2-2 Repair Parts and Special Tools List (RPSTL) (ABV)
6. TM 10984A-OI/3-1 Field Maintenance Manual (ABV), Volume 1
7. TM 10984A-OI/3-2 Field Maintenance Manual (ABV), Volume 2
8. TM 10984A-OI/3-3 Field Maintenance Manual (ABV), Volume 3
9. TM 10984A-OI/3-4 Field Maintenance Manual (ABV), Volume 4
10. TM 10984A-OI/3-5 Field Maintenance Manual (ABV), Volume 5
11. TM 10984A-OI/3-6 Field Maintenance Manual (ABV), Volume 6
12. TM 10984A-OR/1-1 Operators Manual, (ABV) Volume 1
13. TM 10984A-OR/1-2 Operators Manual, (ABV) Volume 2
14. TM 10984A-OR/4 CREW CHECKLIST ASSAULT BREACHER VEHICLE (ABV)
15. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
16. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
17. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
18. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
19. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
20. TM 5-5420-202-24P AVLB M60A1 TANK CHASSIS
21. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting
22. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
23. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
24. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
25. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
26. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
27. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
28. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
29. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
30. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
31. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
32. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
33. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
34. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
35. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
36. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
37. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
38. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7

39. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
 40. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 41. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 42. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
 43. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
 44. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
 45. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
 46. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 47. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 48. TM 9-2350-292-24P UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECOVERY VEHICLE, FULL-TRACKED: HEAVY M88A2
 49. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2
 50. UM 4400.125 GCSS-MC User Manual
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2146-MAIN-1008: Conduct field level corrective maintenance on TANK FOV ancillary systems

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel to serviceable or operational condition. This includes but is not limited to Tank Dozer Blade, Tank Mine Plow, M88 Auxiliary Power Unit (APU), and Tank FOV Fording Kits.

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.

4. Determine maintenance actions.
5. Requisition parts.
6. Perform required maintenance actions.
7. Conduct quality control.
8. Document maintenance actions.
9. Return equipment to owner.

REFERENCES:

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 10984A-OI/2-1 Repair Parts and Special Tools List (RPSTL) (ABV)
5. TM 10984A-OI/2-2 Repair Parts and Special Tools List (RPSTL) (ABV)
6. TM 10984A-OI/3-1 Field Maintenance Manual (ABV), Volume 1
7. TM 10984A-OI/3-2 Field Maintenance Manual (ABV), Volume 2
8. TM 10984A-OI/3-3 Field Maintenance Manual (ABV), Volume 3
9. TM 10984A-OI/3-4 Field Maintenance Manual (ABV), Volume 4
10. TM 10984A-OI/3-5 Field Maintenance Manual (ABV), Volume 5
11. TM 10984A-OI/3-6 Field Maintenance Manual (ABV), Volume 6
12. TM 10984A-OR/1-1 Operators Manual, (ABV) Volume 1
13. TM 10984A-OR/1-2 Operators Manual, (ABV) Volume 2
14. TM 10984A-OR/4 CREW CHECKLIST ASSAULT BREACHER VEHICLE (ABV)
15. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
16. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
17. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
18. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
19. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
20. TM 5-5420-202-24P AVLB M60A1 TANK CHASSIS
21. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting
22. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
23. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
24. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
25. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
26. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
27. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
28. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
29. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
30. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
31. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
32. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
33. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
34. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN

- 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
35. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
36. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
37. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
38. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
39. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
40. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
41. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
42. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
43. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
44. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
45. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
46. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
47. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
48. TM 9-2350-292-24P UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECOVERY VEHICLE, FULL-TRACKED: HEAVY M88A2
49. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2

2146-MAIN-1009: Operate recovery vehicle unique equipment

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

READINESS-CODED: NO

DESCRIPTION: Tank FOV maintainers are required to operate the M88 recovery vehicle's unique equipment. This includes the winch, crane, Exothermic Cutting Device, and recovery vehicle unique hydraulic system.

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an M88 recovery vehicle and as a member of a crew.

STANDARD: To prevent personnel injury and equipment damage.

PERFORMANCE STEPS:

1. Perform PMCS on maintenance and recovery equipment.
2. Operate hydraulics.
3. Operate auxiliary winch.
4. Operate main winch.
5. Operate crane.
6. Operate floodlights/work lights.
7. Operate Exothermic Cutting Device.

REFERENCES:

1. MCTP 3-40E Maintenance Operations
 2. TM 9-2350-292-10 OPERATOR'S MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 3. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 4. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
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2146-MAIN-1010: Conduct Field Level corrective maintenance of TANK FOV transmission.

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in a serviceable or operational condition.

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)

2. MCO 4790.25_Ground Equipment Maintenance Program (GEMP)
3. UM 4400.125 GCSS-MC User Manual

2146-MED-1001: Perform individual actions to evacuate injured crewman

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

READINESS-CODED: NO

BILLETS: Driver, Rigger, Vehicle Commander

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: As a crew member, given an M1A1, ABV, AVLB, or M88, all associated equipment, and crew.

STANDARD: To remove injured personnel without causing additional harm.

PERFORMANCE STEPS:

1. Stabilize injured crewman through self-aid/buddy-aid.
2. Send casualty report to higher.
3. Select most appropriate hatch and path of evacuation.
4. Evacuate injured crewman from vehicle.

REFERENCES:

1. MCRP 3-10B.2 Heavy Brigade Combat Team (HBCT) Gunnery
2. MCWP 3-12.2 Heavy Brigade Combat Team (HBCT) Gunnery
3. ST 3-20.21-1 Individual and Crew Live-Fire Prerequisite Testing
4. TM 10984A-OR/1-1 Operators Manual, (ABV) Volume 1
5. TM 10984A-OR/1-2 Operators Manual, (ABV) Volume 2
6. TM 5-5420-203-14 Operator's Manual for AVLB
7. TM 9-2350-264-10-1 Operators Manual, Operator Controls, PMCS, and Operation Under Usual Conditions, Volume 1 of 2, Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 2350-01-087-1095 General Abrams
8. TM 9-2350-264-10-2 Operator's Manual, Unusual Conditions, Troubleshooting, and Maintenance, Volume 2 of 2, Tank, Combat, Full-Tracked: 120-MM, M1A1 2350-01-087-1095, General Abrams
9. TM 9-2350-292-10 Operator's Manual for Recovery Vehicle, Full Tracked, Heavy

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a MOS Specific Physical Standard required for the MOS of 2146. See Appendix D for further detail.

2146-VOPS-1001: Operate commander's station on ABV

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

READINESS-CODED: NO

DESCRIPTION: Operate commander's station on ABV

MOS PERFORMING: 2146

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an ABV, SL-3 equipment, and the references.

STANDARD: To ensure all associated vehicle commander equipment is functional and the vehicle is prepared for operation.

PERFORMANCE STEPS:

1. Open commander's hatch.
2. Adjust commander's seat and platforms.
3. Power up UTCP, intercom, radio, DAGR, IVS (ABV).
4. Power down commander's station.

REFERENCES:

1. TM 10984A-OR/1-1 Operators Manual, (ABV) Volume 1
2. TM 10984A-OR/1-2 Operators Manual, (ABV) Volume 2

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a MOS Specific Physical Standard required for the MOS of 2146. See Appendix D for further detail.

13004. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2146-MAIN-2001	NO	Perform field level intermediate maintenance on TANK FOV armament system	13-21
2146-MAIN-2002	NO	Conduct field level intermediate maintenance on TANK FOV transmission assembly	13-23
2146-MAIN-2003	NO	Conduct field level intermediate maintenance on TANK FOV power take-off assembly	13-25
2146-MAIN-2004	NO	Conduct field level intermediate maintenance on TANK FOV engine	13-27
2146-MAIN-2005	NO	Conduct field level intermediate maintenance TANK FOV final drive assembly	13-29

13005. 2000-LEVEL EVENTS

2146-MAIN-2001: Perform field level intermediate maintenance on TANK FOV armament system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition. Repair will be conducted the following TANK FOV components but not limited to: Elevation mechanism, equilibrator, slip ring, fire control system, and weapons cradle.

MOS PERFORMING: 2146

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
2. MCTP 3-40E Maintenance Operations
3. TM 9-2350-264-10-1 Operators Manual, Operator Controls, PMCS, and Operation Under Usual Conditions, Volume 1 of 2, Tank, Combat, Full-Tracked: 120-MM Gun, M1A1 2350-01-087-1095 General Abrams
4. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
5. TM 9-2350-264-10-2 Operator's Manual, Unusual Conditions, Troubleshooting, and Maintenance, Volume 2 of 2, Tank, Combat, Full-Tracked: 120-MM, M1A1 2350-01-087-1095, General Abrams
6. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
7. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
8. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
9. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
10. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN

- 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
11. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
12. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
13. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
14. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
15. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
16. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
17. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
18. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
19. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
20. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
21. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
22. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
23. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
24. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
25. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
26. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
27. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
28. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
29. UM 4400.125 GCSS-MC User Manual

2146-MAIN-2002: Conduct field level intermediate maintenance on TANK FOV transmission assembly

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2146

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations
4. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
7. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
8. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
9. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
10. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
11. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
12. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
13. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
14. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
15. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
16. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
17. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
18. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
19. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
20. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7

21. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
22. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
23. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
24. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
25. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
26. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
27. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
28. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
29. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
30. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
31. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
32. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
33. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
34. TM 9-2350-292-24P UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECOVERY VEHICLE, FULL-TRACKED: HEAVY M88A2
35. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2
36. UM 4400.125 GCSS-MC User Manual

2146-MAIN-2003: Conduct field level intermediate maintenance on TANK FOV power take-off assembly

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2146

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
2. MCTP 3-40E Maintenance Operations
3. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
4. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
5. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
7. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
8. TM 5-5420-202-24P AVLB M60A1 TANK CHASSIS
9. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting
10. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
11. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
12. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
13. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
14. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
15. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
16. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
17. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
18. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
19. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
20. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
21. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
22. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
23. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
24. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7

25. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
 26. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
 27. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
 28. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 29. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 30. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
 31. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
 32. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
 33. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
 34. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 35. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
 36. TM 9-2350-292-24P UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECOVERY VEHICLE, FULL-TRACKED: HEAVY M88A2
 37. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2
 38. UM 4400.125 GCSS-MC User Manual
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2146-MAIN-2004: Conduct field level intermediate maintenance on TANK FOV engine

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2146

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.

2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.25_Ground Equipment Maintenance Program (GEMP)
2. MCTP 3-40E Maintenance Operations
3. TM 9-2350-264-10-1 Operators Manual, Operator Controls, PMCS, and Operation Under Usual Conditions, Volume 1 of 2, Tank, Combat, Full- Tracked: 120-MM Gun, M1A1 2350-01-087-1095 General Abrams
4. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
5. TM 9-2350-264-10-2 Operator's Manual, Unusual Conditions, Troubleshooting, and Maintenance, Volume 2 of 2, Tank, Combat, Full- Tracked: 120-MM, M1A1 2350-01-087-1095, General Abrams
6. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
7. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
8. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
9. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
10. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
11. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
12. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
13. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
14. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
15. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
16. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
17. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
18. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
19. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
20. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
21. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
22. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN

- 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
23. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 24. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
 25. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
 26. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
 27. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
 28. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
 29. UM 4400.125 GCSS-MC User Manual
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2146-MAIN-2005: Conduct field level intermediate maintenance TANK FOV final drive assembly

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2146

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance.
2. Determine technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts.
7. Perform required maintenance actions.
8. Conduct quality control.
9. Document maintenance actions.
10. Return equipment to owner.

REFERENCES:

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
3. MCTP 3-40E Maintenance Operations

4. TM 5-5420-202-10 Operator's Manual for M-60 AVLB
5. TM 5-5420-202-20-1 AVLB M60A1 Chassis Transporting
6. TM 5-5420-202-20-2 AVLB M60A1 Chassis Transporting
7. TM 5-5420-202-20-3 AVLB M60A1 Chassis Transporting
8. TM 5-5420-202-20-4 AVLB M60A1 Chassis Transporting
9. TM 5-5420-202-24P AVLB M60A1 TANK CHASSIS
10. TM 5-5420-202-34 AVLB M60A1 Chassis Transporting
11. TM 9-2350-264-10-1 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 1 OF 3
12. TM 9-2350-264-10-2 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 2 OF 3
13. TM 9-2350-264-10-3 TECHNICAL MANUAL OPERATOR'S MANUAL FOR TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS VOLUME 3 OF 3
14. TM 9-2350-264-23-1-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 1 OF 8
15. TM 9-2350-264-23-1-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 2 OF 8
16. TM 9-2350-264-23-1-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 3 OF 8
17. TM 9-2350-264-23-1-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 4 OF 8
18. TM 9-2350-264-23-1-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 5 OF 8
19. TM 9-2350-264-23-1-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 6 OF 8
20. TM 9-2350-264-23-1-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 7 OF 8
21. TM 9-2350-264-23-1-8 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS HULL VOLUME 8 OF 8
22. TM 9-2350-264-23-2-1 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 1 OF 7
23. TM 9-2350-264-23-2-2 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 2 OF 7
24. TM 9-2350-264-23-2-3 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 3 OF 7
25. TM 9-2350-264-23-2-4 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 4 OF 7
26. TM 9-2350-264-23-2-5 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 5 OF 7
27. TM 9-2350-264-23-2-6 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 6 OF 7
28. TM 9-2350-264-23-2-7 TANK, COMBAT, FULL-TRACKED: 120 MM GUN, M1A1 (NSN 2350-01-087-1095) (EIC: AAB) GENERAL ABRAMS TURRET VOLUME 7 OF 7
29. TM 9-2350-264-24P-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,HULL,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
30. TM 9-2350-264-24P-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,TURRET,GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
31. TM 9-2350-264-34-1-1 TANK, COMBAT, FULL-TRACKED:DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 1 OF 2
32. TM 9-2350-264-34-1-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT AND GENERAL SUPPORT,HULL,VOLUME 2 OF 2
33. TM 9-2350-264-34-2-1 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT

- AND GENERAL SUPPORT,TURRET,VOLUME 1 OF 2
34. TM 9-2350-264-34-2-2 TANK, COMBAT, FULL-TRACKED:120-MM GUN, M1A1,DIRECT SUPPORT
AND GENERAL SUPPORT,TURRET,VOLUME 2 OF 2
35. TM 9-2350-292-20-1 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
36. TM 9-2350-292-20-2 UNIT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED:M88A2
37. TM 9-2350-292-24P UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RECOVERY VEHICLE, FULL-TRACKED: HEAVY M88A2
38. TM 9-2350-292-34 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR RECOVERY VEHICLE, HEAVY, FULL-TRACKED: M88A2
39. UM 4400.125 GCSS-MC User Manual

GRDORDMAINT T&R MANUAL

CHAPTER 14

MOS 2147 INDIVIDUAL EVENTS

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GRDORDMAINT T&R MANUAL

CHAPTER 14

MOS 2147 INDIVIDUAL EVENTS

14000. PURPOSE. This chapter details the individual events that pertain to MOS 2147 Light Armored Vehicle (LAV) Repairer/Technician events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

14001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2147	Light Armored Vehicle (LAV) Repairer/Technician

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
MAIN	Maintenance
MED	Medical
VOPS	Vehicle Operations
WPNS	Weapons

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
1000	Core Skills
2000	Core Plus Skills

14002. INDEX OF 1000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2147-MAIN-1001	NO	Perform field level corrective maintenance on LAV FOV suspension system	14-3
2147-MAIN-1002	NO	Perform field level corrective maintenance on LAV FOV steering system.	14-4
2147-MAIN-1003	NO	Perform field level corrective maintenance on LAV FOV drive train	14-5

2147-MAIN-1004	NO	Perform field level corrective maintenance on LAV FOV pneumatic and brake system	14-6
2147-MAIN-1005	NO	Perform field level corrective maintenance on LAV FOV hydraulic system	14-7
2147-MAIN-1006	NO	Perform field level corrective maintenance on LAV FOV electrical system	14-7
2147-MAIN-1007	NO	Perform field level corrective maintenance on LAV FOV cooling system	14-8
2147-MAIN-1008	NO	Perform field level corrective maintenance on LAV FOV fuel system	14-9
2147-MAIN-1009	NO	Perform field level corrective maintenance on LAV FOV power pack	14-10
2147-MAIN-1010	NO	Perform field level corrective maintenance on LAV FOV automatic fire suppression system	14-11
2147-MED-1001	NO	Perform individual actions to evacuate injured crewman	14-12
2147-WPNS-1001	NO	Perform field level corrective maintenance on M242 Bushmaster chain gun	14-13

14003. 1000-LEVEL EVENTS

2147-MAIN-1001: Perform field level corrective maintenance on LAV FOV suspension system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.

12. Return equipment to owner, if required.

REFERENCES :

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCTP 3-40E Maintenance Operations
 3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
 4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 8. TM 4700-15/1_ Ground Equipment Record Procedures
 9. UM 4400.125 GCSS-MC User Manual
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2147-MAIN-1002: Perform field level corrective maintenance on LAV FOV steering system.

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES :

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCTP 3-40E Maintenance Operations

3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
 4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2
AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2
AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2
AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2
AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 8. TM 4700-15/1_ Ground Equipment Record Procedures
 9. UM 4400.125 GCSS-MC User Manual
-

2147-MAIN-1003: Perform field level corrective maintenance on LAV FOV drive train

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCTP 3-40E Maintenance Operations
3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2
AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2
AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)

6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 8. TM 4700-15/1_ Ground Equipment Record Procedures
 9. UM 4400.125 GCSS-MC User Manual
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2147-MAIN-1004: Perform field level corrective maintenance on LAV FOV pneumatic and brake system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCTP 3-40E Maintenance Operations
3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
8. TM 4700-15/1_ Ground Equipment Record Procedures

9. UM 4400.125 GCSS-MC User Manual

2147-MAIN-1005: Perform field level corrective maintenance on LAV FOV hydraulic system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCTP 3-40E Maintenance Operations
 3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
 4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 8. TM 4700-15/1_ Ground Equipment Record Procedures
 9. UM 4400.125 GCSS-MC User Manual
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2147-MAIN-1006: Perform field level corrective maintenance on LAV FOV electrical system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCTP 3-40E Maintenance Operations
3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
8. TM 4700-15/1_ Ground Equipment Record Procedures
9. UM 4400.125 GCSS-MC User Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a MOS Specific Physical Standard required for the MOS of 2147. See Appendix D for further detail.

2147-MAIN-1007: Perform field level corrective maintenance on LAV FOV cooling system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCTP 3-40E Maintenance Operations
 3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
 4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 8. TM 4700-15/1_ Ground Equipment Record Procedures
 9. UM 4400.125 GCSS-MC User Manual
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2147-MAIN-1008: Perform field level corrective maintenance on LAV FOV fuel system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCTP 3-40E Maintenance Operations
 3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
 4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 8. TM 4700-15/1_ Ground Equipment Record Procedures
 9. UM 4400.125 GCSS-MC User Manual
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2147-MAIN-1009: Perform field level corrective maintenance on LAV FOV power pack

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCTP 3-40E Maintenance Operations
 3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
 4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 8. TM 4700-15/1_ Ground Equipment Record Procedures
 9. UM 4400.125 GCSS-MC User Manual
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2147-MAIN-1010: Perform field level corrective maintenance on LAV FOV automatic fire suppression system

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational condition.

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCTP 3-40E Maintenance Operations
 3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
 4. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 5. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 6. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
 7. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
 8. TM 4700-15/1_ Ground Equipment Record Procedures
 9. UM 4400.125 GCSS-MC User Manual
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2147-MED-1001: Perform individual actions to evacuate injured crewman

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

READINESS-CODED: NO

BILLETS: Driver, Gunner, Loader, Vehicle Commander

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: As crew member, Given an LAV, all associated equipment, and crew.

STANDARD: To remove injured personnel without causing additional harm.

PERFORMANCE STEPS:

1. Stabilize injured crewman through self-aid/buddy-aid.
2. Send casualty report to higher.
3. Select most appropriate hatch and path of evacuation.
4. Evacuate injured crewman from vehicle.

REFERENCES:

1. MCRP 3-10B.2 Heavy Brigade Combat Team (HBCT) Gunnery
2. ST 3-20.21-1 Individual and Crew Live-Fire Prerequisite Testing

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: This event is a MOS Specific Physical Standard required for the MOS of 2147. See Appendix D for further detail.

2147-WPNS-1001: Perform field level corrective maintenance on M242 Bushmaster chain gun

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

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.

3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES :

1. MCBul 3000 Marine Corps Readiness Reportable Ground Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCTP 3-40E Maintenance Operations
5. TM 08594B-10/2B Operator's Manual LAV-25 Hull
6. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
7. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
8. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
9. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
10. TM 08594C-OR-1A Operators Manual LAV-25A2 Turret Vol. 2 of 2 legacy
11. TM 4700-15/1_ Ground Equipment Record Procedures
12. UM 4400.125 GCSS-MC User Manual

MISCELLANEOUS :

ADMINISTRATIVE INSTRUCTIONS: This event is a MOS Specific Physical Standard required for the MOS of 2147. See Appendix D for further details.

14004. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2147-MAIN-2001	NO	Conduct field level intermediate maintenance on LAV FOV secondary repairable.	14-14
2147-MAIN-2002	NO	Conduct field level intermediate maintenance on LAV FOV turrets	14-15
2147-VOPS-2001	NO	Egress the LAV	14-16

14005. 2000-LEVEL EVENTS

2147-MAIN-2001: Conduct field level intermediate maintenance on LAV FOV secondary repairable.

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain equipment in serviceable or operational condition. Repair will be conducted on the following LAV components but not limited to: Engine, transmission, transfer case, differential, control arms, struts, chassis hydraulic pump, and turbo.

MOS PERFORMING: 2147

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCTP 3-40E Maintenance Operations
3. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
4. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
5. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
6. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
7. TM 4700-15/1_ Ground Equipment Record Procedures
8. TM 8A192C-34/P1 6V53T Engine Repair Manual
9. UM 4400.125 GCSS-MC User Manual

2147-MAIN-2002: Conduct field level intermediate maintenance on LAV FOV turrets

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Maintenance involves those actions taken to restore or retain materiel in serviceable or operational condition. Repair will be conducted on the following LAV-25 and LAV-ATM turret and components but not limited to: Gun Control unit, Slip Ring, Control Display Assembly, Line of Sight Controller, Sight Enclosure Assembly, and Mission Control Subsystem.

MOS PERFORMING: 2147

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given TO&E assets, access to an AIS, and maintenance resources.

STANDARD: Restoring equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions required.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/TIs, as required.
9. Apply firmware/software upgrades, as required.
10. Document maintenance actions.
11. Conduct quality control.
12. Return equipment to owner, if required.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCTP 3-40E Maintenance Operations
5. TM 08594C-OR/4 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
6. TM 08594C-OR/4 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
7. TM 08594C-OR/5 VOL 1 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 1 OF 2 (LEGACY)
8. TM 08594C-OR/5 VOL 2 OF 2 ORGANIZATIONAL MAINTENANCE FOR LAV-25A2 AUTOMOTIVE/HULL VOL 2 OF 2 (NEW PRODUCTION)
9. TM 4700-15/1_ Ground Equipment Record Procedures
10. TM 8A192C-34/P1 6V53T Engine Repair Manual
11. UM 4400.125 GCSS-MC User Manual

2147-VOPS-2001: Egress the LAV

EVALUATION-CODED: NO **SUSTAINMENT INTERVAL:** 36 months

READINESS-CODED: NO

MOS PERFORMING: 2147

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a rapidly sinking or submerged LAV.

STANDARD: In order to reach the surface of the water.

PERFORMANCE STEPS:

1. Unfasten seatbelt.
2. Unlock assigned hatch.
3. Employ life support equipment as required.
4. Exit vehicle.
5. Swim to surface.

REFERENCES: Unit SOP Unit's Standing Operating Procedures

SUPPORT REQUIREMENTS:

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Reserve training will take place at Initial Location for Mobilization (ILOC) or during two week annual training (AT).

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CHAPTER 15

MOS 2149 INDIVIDUAL EVENTS

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2000-LEVEL EVENTS	15003	15-2

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CHAPTER 15

MOS 2149 INDIVIDUAL EVENTS

15000. PURPOSE. This chapter details the individual events that pertain to MOS 2149 Ordnance Vehicle Maintenance Chief events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

15001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2149	Ordnance Vehicle Maintenance Chief

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
OPS	Operations
PROG	Programs

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
2000	Core Plus Skills

15002. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2149-OPS-2001	NO	Manage ground ordnance vehicle maintenance operations	15-2
2149-PROG-2001	NO	Manage ground ordnance vehicle maintenance programs	15-3

15003. 2000-LEVEL EVENTS

2149-OPS-2001: Manage ground ordnance vehicle maintenance operations

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to human capital, physical security, recovery operations and safety programs.

MOS PERFORMING: 2149

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, TO&E Assets, and access to AIS.

STANDARD: To ensure compliance with policies and procedures for operations related to ground ordnance resources.

PERFORMANCE STEPS:

1. Manage human capital.
2. Manage accountability of serialized/non-serialized assets.
3. Manage Completion of required NAVMC forms, records and AIS.
4. Manage Compliance with physical security procedures.
5. Manage the transport of ordnance vehicles.
6. Manage ground ordnance safety programs.
7. Facilitate redistribution and fielding of equipment.

REFERENCES:

1. MCO 11262.2_ Standard Policy for Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCO 5500.6_ Arming of Law Enforcement and Security Personnel and the Use of Force
5. MCO 5530.14_ Marine Corps Physical Security Program Manual
6. MCO 8400.6 Licensing Procedures for Ordnance Vehicles
7. MCRP 4-11.3F Convoy Operations Handbook
8. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
9. MCTP 3-40E Maintenance Operations

2149-PROG-2001: Manage ground ordnance vehicle maintenance programs

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to Load Lift certification, Conditions based maintenance, reliability centered maintenance, Enterprise lifecycle management program (ELMP), warranty programs, inspections and Corrosion Prevention and Control.

MOS PERFORMING: 2149

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, TO&E, and access to AIS.

STANDARD: To prioritize and manage maintenance resources, increase equipment availability through the management of a comprehensive maintenance effort.

PERFORMANCE STEPS:

1. Analyze mission requirements.
2. Assess capabilities.
3. Conduct inspections.
4. Determine resource requirements.
5. Coordinate resource requirements.
6. Manage maintenance reporting.

REFERENCES:

1. MCO 11262.2_ Standard Policy for Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCO 8400.6 Licensing Procedures for Ordnance Vehicles
5. MCRP 4-11.3F Convoy Operations Handbook
6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
7. MCTP 3-40E Maintenance Operations

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CHAPTER 16

MOS 2161 INDIVIDUAL EVENTS

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1000-LEVEL EVENTS	16003	16-2
INDEX OF 2000-LEVEL INDIVIDUAL EVENTS	16004	16-6
2000-LEVEL EVENTS	16005	16-6

GRDORDMAINT T&R MANUAL

CHAPTER 16

MOS 2161 INDIVIDUAL EVENTS

16000. PURPOSE. This chapter details the individual events that pertain to MOS 2161 Machinist events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

16001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2161	Machinist

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
MACH	Machining
OPS	Operations
PROG	Programs

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
1000	Core Skills
2000	Core Plus Skills

16002. INDEX OF 1000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2161-MACH-1001	NO	Perform precision fabrication	16-3
2161-MACH-1002	NO	Perform semi-precision fabrication	16-3
2161-MACH-1003	NO	Perform thread repair	16-4
2161-MACH-1004	NO	Operate shop equipment machine shop (SEMS)	16-5

16003. 1000-LEVEL EVENTS

2161-MACH-1001: Perform precision fabrication

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: The individual is required to fabricate work piece within a range of +/- 0.005 unless otherwise specified in blueprint, utilizing a lathe, vertical mill, CAD/CAM software, water jet cutting system, G-M code, CNC equipment and an additive manufacturing platform.

MOS PERFORMING: 2161

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, access to AIS, and TO&E.

STANDARD: To ensure work piece is within blueprint specifications.

PERFORMANCE STEPS:

1. Analyze or draft shop drawing(s).
2. Determine manufacturing process.
3. Determine appropriate tools/equipment/material.
4. Conduct Additive Manufacturing (AM) to fabricate work piece, as required.
5. Conduct Subtractive Manufacturing (SM) to fabricate work piece, as required.
6. Perform quality control.
7. Conduct Preventive Maintenance Checks and Services (PMCS).
8. Conduct administrative actions in AIS.

REFERENCES:

1. CNC Programming Handbook CNC Programming Handbook
2. Machinist Handbook Machinist Handbook
3. MARADMIN 594/17 Headquarters Marine Corps Procedural Guidance Update on the Management and Employment of Additive Manufacturing
4. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
5. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
6. Metalworking Handbook for the Metalworking Industries
7. OM Operator's Manual
8. OPNAV 4790.2 Naval Aviation Maintenance Program
9. TC 9-524 Fundamentals of Machine Tools
10. UM 4400.125 GCSS-MC User Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Utilize a welder (1316) for fusion to the manufacturing process, as required.

2161-MACH-1002: Perform semi-precision fabrication

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

READINESS-CODED: NO

DESCRIPTION: The individual is required to fabricate work piece within a range of +/- 1/64 unless otherwise specified in blueprint utilizing a measuring tools, drafting tools, drill press, surface grinder, bench grinder and hand tools.

MOS PERFORMING: 2161

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mission requirement, access to AIS, and TO&E.

STANDARD: To ensure work piece is within blueprint specifications.

PERFORMANCE STEPS:

1. Analyze or draft shop drawing(s).
2. Determine manufacturing process.
3. Determine appropriate tools/equipment/material.
4. Conduct Subtractive Manufacturing (SM) to fabricate work piece, as required.
5. Perform quality control.
6. Conduct Preventive Maintenance Checks and Services (PMCS).
7. Conduct administrative actions in AIS.

REFERENCES:

1. Machinist Handbook Machinist Handbook
2. MARADMIN 594/17 Headquarters Marine Corps Procedural Guidance Update on the Management and Employment of Additive Manufacturing
3. Metalworking Handbook for the Metalworking Industries
4. OM Operator's Manual
5. OPNAV 4790.2 Naval Aviation Maintenance Program
6. TC 9-524 Fundamentals of Machine Tools
7. UM 4400.125 GCSS-MC User Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Utilize a welder (1316) for fusion to the manufacturing process, as required.

2161-MACH-1003: Perform thread repair

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

READINESS-CODED: NO

DESCRIPTION: The individual is required to repair threaded holes by extracting broken bolts, taps, drill bits, and threaded inserts.

MOS PERFORMING: 2161

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mission requirement, access to AIS, and the TO&E.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Determine appropriate tool(s).
2. Extract broken component.
3. Recondition thread.
4. Perform quality control.
5. Complete maintenance and/or administrative forms and records in AIS.

REFERENCES:

1. Machinist Handbook Machinist Handbook
 2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 4. Metalworking Handbook for the Metalworking Industries
 5. OM Operator's Manual
 6. OPNAV 4790.2 Naval Aviation Maintenance Program
 7. TC 9-524 Fundamentals of Machine Tools
 8. UM 4400.125 GCSS-MC User Manual
-

2161-MACH-1004: Operate shop equipment machine shop (SEMS)

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

READINESS-CODED: NO

DESCRIPTION: The individual is required to set up and operate the SEMS.

MOS PERFORMING: 2161

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mission requirement, access to AIS, and TO&E.

STANDARD: To ensure the SEMS is established to support operational requirements.

PERFORMANCE STEPS:

1. Determine area of operation.
2. Set up shelters.
3. Set up equipment.
4. Conduct an operations check.

5. Retrograde shelters/equipment, when applicable.
6. Conduct Preventive Maintenance Checks and Services (PMCS).
7. Complete maintenance and/or administrative forms and records in AIS.

REFERENCES:

1. MCO 4790.2 Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25 Ground Equipment Maintenance Program (GEMP)
3. OPNAV 4790.2 Naval Aviation Maintenance Program
4. TM 11762A-OI/8 Shop Equipment Machine Shop
5. TM 4700-15/1 Ground Equipment Record Procedures
6. UM 4400.125 GCSS-MC User Manual

16004. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2161-MACH-2001	NO	Perform heat treating operation	16-6
2161-MACH-2002	NO	Conduct advanced CNC operations	16-7

16005. 2000-LEVEL EVENTS

2161-MACH-2001: Perform heat treating operation

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

READINESS-CODED: NO

DESCRIPTION: The individual is required to temper the material to the required tensile strength.

MOS PERFORMING: 2161

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, access to AIS, and TO&E.

STANDARD: To ensure work piece is within blueprint specifications.

PERFORMANCE STEPS:

1. Analyze shop drawing(s).
2. Analyze type of metal.
3. Utilize applicable heat treatment procedures.
4. Verify hardness.
5. Perform Preventive Maintenance Checks and Services (PMCS).
6. Complete maintenance and/or administrative forms and records in AIS.

REFERENCES:

1. Machinist Handbook Machinist Handbook
2. Metalworking Handbook for the Metalworking Industries
3. OM Operator's Manual
4. TO 01-1A-9 NAVAIR 01-1A-9 Aerospace Metal Publication

2161-MACH-2002: Conduct advanced CNC operations

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

READINESS-CODED: NO

DESCRIPTION: The individual is required to utilize a computer aided design/ computer aided machining (CAD/CAM) software in conjunction with Standard and fourth and fifth axis (multi axis) Computer Numerical Control (CNC) equipment to fabricate parts within specifications.

MOS PERFORMING: 2161

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, access to AIS, and TO&E.

STANDARD: To ensure work piece is within blueprint specifications.

PERFORMANCE STEPS:

1. Analyze or draft shop drawing(s).
2. Model/design work piece.
3. Utilize applicable computer aided machining program(s).
4. Fabricate work piece.
5. Perform quality control.
6. Conduct Preventive Maintenance Checks and Services (PMCS).
7. Complete maintenance and/or administrative forms and records in AIS.

REFERENCES:

1. Machinist Handbook Machinist Handbook
2. Metalworking Handbook for the Metalworking Industries
3. OM Operator's Manual
4. Software Manual CAD/CAM Software Manual
5. UM 4400.125 GCSS-MC User Manual

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CHAPTER 17

MOS 2171 INDIVIDUAL EVENTS

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GRDORDMAINT T&R MANUAL

CHAPTER 17

MOS 2171 INDIVIDUAL EVENTS

17000. PURPOSE. This chapter details the individual events that pertain to MOS 2171 Electro-Optical Ordnance Repairer events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

17001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology:

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2171	Electro-Optical Ordnance Repairer

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
MAIN	Maintenance
OPS	Operations

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
1000	Core Skills
2000	Core Plus Skills

17002. INDEX OF 1000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2171-MAIN-1001	NO	Perform service on direct view optical systems	17-3
2171-MAIN-1002	NO	Perform maintenance on image-intensified systems	17-3
2171-MAIN-1003	NO	Perform maintenance on LASER systems	17-4
2171-MAIN-1004	NO	Perform maintenance on thermal systems	17-5
2171-MAIN-1005	NO	Perform maintenance on anti-armor systems	17-6
2171-MAIN-1006	NO	Perform maintenance on fire-control systems	17-7

2171-MAIN-1007	NO	Perform maintenance on electro-optical circuits	17-8
2171-OPS-1001	NO	Operate purge/charge equipment	17-9

17003. 1000-LEVEL EVENTS

2171-MAIN-1001: Perform service on direct view optical systems

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

READINESS-CODED: NO

DESCRIPTION: Direct view optical systems comprise those systems that collect and focus light in the visible spectrum and deliver the image it creates uninterrupted to the user without the enhancement of electrical components. Maintenance is all action taken to retain equipment in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Conduct inspection.
2. Perform service.
3. Perform repair.
4. Conduct recovery and evacuation, if applicable.
5. Apply modification, if applicable.
6. Conduct quality control inspection.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCTP 3-40E Maintenance Operations
5. TM 4700-15/1_ Ground Equipment Record Procedures
6. TM 750-116 General Procedures for Purge and Charge
7. TM 8000-10/1_ PRINCIPAL TECHNICAL CHARACTERISTICS OF U.S. MARINE CORPS GROUND ORDNANCE EQUIPMENT
8. TM 9-254 General Maintenance Procedures for Fire Control Materiel
9. TM 9-258 Elementary Optics and Application to Fire Control Instruments
10. UM 4400.125 GCSS-MC User Manual

2171-MAIN-1002: Perform maintenance on image-intensified systems

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

READINESS-CODED: NO

DESCRIPTION: Image-intensified systems collect light in the visible spectrum and amplifies it through chemical, optical, and/or electrical components to deliver an enhanced image that would not otherwise be visible due to low-light conditions. Maintenance is all action taken to retain equipment in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Conduct inspection.
2. Perform service.
3. Perform repair.
4. Conduct recovery and evacuation, if applicable.
5. Apply modification, if applicable.
6. Conduct quality control inspection.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCTP 3-40E Maintenance Operations
5. TM 4700-15/1_ Ground Equipment Record Procedures
6. TM 750-116 General Procedures for Purge and Charge
7. TM 8000-10/1_ PRINCIPAL TECHNICAL CHARACTERISTICS OF U.S. MARINE CORPS GROUND ORDNANCE EQUIPMENT
8. TM 9-254 General Maintenance Procedures for Fire Control Materiel
9. TM 9-258 Elementary Optics and Application to Fire Control Instruments
10. UM 4400.125 GCSS-MC User Manual

2171-MAIN-1003: Perform maintenance on LASER systems

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

READINESS-CODED: NO

DESCRIPTION: LASER systems are designed to project a beam of energy, through the electro-magnetic spectrum, for the purpose of target designation, range finding, bore sighting, and non-lethal personnel disruption. Maintenance is all action taken to retain equipment in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Conduct inspection.
2. Perform service.
3. Perform repair.
4. Conduct recovery and evacuation, if applicable.
5. Apply modification, if applicable.
6. Conduct quality control inspection.

REFERENCES:

1. ANZI Z136.1 American National Standard for Safe Use of Lasers
2. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
3. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
4. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
5. MCO 5104.1_ Navy LASER Hazards Control Program
6. MCTP 3-40E Maintenance Operations
7. TM 4700-15/1_ Ground Equipment Record Procedures
8. TM 8000-10/1_ PRINCIPAL TECHNICAL CHARACTERISTICS OF U.S. MARINE CORPS GROUND ORDNANCE EQUIPMENT
9. TM 9-254 General Maintenance Procedures for Fire Control Materiel
10. TM 9-258 Elementary Optics and Application to Fire Control Instruments
11. UM 4400.125 GCSS-MC User Manual

2171-MAIN-1004: Perform maintenance on thermal systems

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

READINESS-CODED: NO

DESCRIPTION: Thermal systems collect energy in the infrared spectrum and processes that information through electro-optical circuits to deliver a visible image. Maintenance is all action taken to retain equipment in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Conduct inspection.
2. Perform service.
3. Perform repair.
4. Conduct recovery and evacuation, if applicable.
5. Apply modification, if applicable.
6. Conduct quality control inspection.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 4. MCTP 3-40E Maintenance Operations
 5. TM 750-116 General Procedures for Purge and Charge
 6. TM 8000-10/1_ PRINCIPAL TECHNICAL CHARACTERISTICS OF U.S. MARINE CORPS GROUND ORDNANCE EQUIPMENT
 7. TM 9-254 General Maintenance Procedures for Fire Control Materiel
 8. TM 9-258 Elementary Optics and Application to Fire Control Instruments
 9. UM 4400.125 GCSS-MC User Manual
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2171-MAIN-1005: Perform maintenance on anti-armor systems

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

READINESS-CODED: NO

DESCRIPTION: Anti-armor systems are designed to incapacitate or destroy armored vehicles of all weight classifications. This can be accomplished through guided or non-guided munitions and compose of rounds, rockets, missiles, and electro-magnetic capabilities. Maintenance is all action taken to retain equipment in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Conduct inspection.
2. Perform service.

3. Perform repair.
4. Conduct recovery and evacuation, if applicable.
5. Apply modification, if applicable.
6. Conduct quality control inspection.

REFERENCES :

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 4. MCTP 3-40E Maintenance Operations
 5. TM 4700-15/1_ Ground Equipment Record Procedures
 6. TM 750-116 General Procedures for Purge and Charge
 7. TM 8000-10/1_ PRINCIPAL TECHNICAL CHARACTERISTICS OF U.S. MARINE CORPS GROUND ORDNANCE EQUIPMENT
 8. TM 9-254 General Maintenance Procedures for Fire Control Materiel
 9. TM 9-258 Elementary Optics and Application to Fire Control Instruments
 10. UM 4400.125 GCSS-MC User Manual
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2171-MAIN-1006: Perform maintenance on fire-control systems

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

READINESS-CODED: NO

DESCRIPTION: Fire-control systems are the electrical, hydraulic, and optical systems, that enable accurate targeting and weaponering of supported weapon platforms. They can be integrated into the system itself or a stand-alone system that affixes to and/or facilitates the operation of the system itself. Maintenance is all action taken to retain equipment in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Conduct inspection.
2. Perform service.
3. Perform repair.
4. Conduct recovery and evacuation, if applicable.
5. Apply modification, if applicable.
6. Conduct quality control inspection.

REFERENCES :

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)

4. MCTP 3-40E Maintenance Operations
 5. TM 4700-15/1_ Ground Equipment Record Procedures
 6. TM 750-116 General Procedures for Purge and Charge
 7. TM 8000-10/1_ PRINCIPAL TECHNICAL CHARACTERISTICS OF U.S. MARINE CORPS GROUND ORDNANCE EQUIPMENT
 8. TM 9-254 General Maintenance Procedures for Fire Control Materiel
 9. TM 9-258 Elementary Optics and Application to Fire Control Instruments
 10. UM 4400.125 GCSS-MC User Manual
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2171-MAIN-1007: Perform maintenance on electro-optical circuits

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

READINESS-CODED: NO

DESCRIPTION: Electro-optical circuits consist of components that enable the integration and operation of electrical and optic portions of image-intensified, LASER, thermal, anti-armor, and fire control systems. Maintenance is all action taken to retain equipment in a serviceable condition or to restore it to serviceability.

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Conduct inspection.
2. Perform service.
3. Perform repair.
4. Conduct recovery and evacuation, if applicable.
5. Apply modification, if applicable.
6. Conduct quality control inspection.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 4. MCTP 3-40E Maintenance Operations
 5. TM 4700-15/1_ Ground Equipment Record Procedures
 6. TM 750-116 General Procedures for Purge and Charge
 7. TM 8000-10/1_ PRINCIPAL TECHNICAL CHARACTERISTICS OF U.S. MARINE CORPS GROUND ORDNANCE EQUIPMENT
 8. TM 9-254 General Maintenance Procedures for Fire Control Materiel
 9. TM 9-258 Elementary Optics and Application to Fire Control Instruments
 10. UM 4400.125 GCSS-MC User Manual
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2171-OPS-1001: Operate purge/charge equipment

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

READINESS-CODED: NO

DESCRIPTION: Purge devices include but are not limited to E1255, TS-10, N2-GEN Series.

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To eliminate and prevent moisture buildup.

PERFORMANCE STEPS:

1. Determine required tools.
2. Perform Limited Technical Inspections.
3. Perform scheduled Preventative Maintenance Checks and Services.
4. Perform organizational maintenance, as required.
5. Perform intermediate maintenance, as required.
6. Complete maintenance/administrative forms and records.

REFERENCES: Applicable technical references

17004. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2171-MAIN-2001	NO	Perform maintenance on unmanned systems	17-9
2171-MAIN-2002	NO	Perform maintenance on fusion systems	17-10
2171-MAIN-2003	NO	Perform maintenance on artillery rocket systems	17-11
2171-OPS-2001	NO	Supervise purge/charge equipment	17-11

17005. 2000-LEVEL EVENTS

2171-MAIN-2001: Perform maintenance on unmanned systems

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

READINESS-CODED: NO

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Conduct inspection.
2. Perform service.
3. Perform repair.
4. Conduct recovery and evacuation, if applicable.
5. Apply modification, if applicable.
6. Conduct quality control inspection.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 4. MCTP 3-40E Maintenance Operations
 5. TM 4700-15/1_ Ground Equipment Record Procedures
 6. TM 750-116 General Procedures for Purge and Charge
 7. UM 4400.125 GCSS-MC User Manual
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2171-MAIN-2002: Perform maintenance on fusion systems

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

READINESS-CODED: NO

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Conduct inspection.
2. Perform service.
3. Perform repair.
4. Conduct recovery and evacuation, if applicable.
5. Apply modification, if applicable.
6. Conduct quality control inspection.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)

3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 4. MCTP 3-40E Maintenance Operations
 5. TM 4700-15/1_ Ground Equipment Record Procedures
 6. TM 750-116 General Procedures for Purge and Charge
 7. TM 9-254 General Maintenance Procedures for Fire Control Materiel
 8. TM 9-258 Elementary Optics and Application to Fire Control Instruments
 9. UM 4400.125 GCSS-MC User Manual
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2171-MAIN-2003: Perform maintenance on artillery rocket systems

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

READINESS-CODED: NO

MOS PERFORMING: 2171

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a requirement, access to AIS, and unit TO&E.

STANDARD: To restore equipment to a serviceable condition.

PERFORMANCE STEPS:

1. Induct equipment into maintenance, if required.
2. Determine applicable technical references.
3. Conduct initial inspection.
4. Troubleshoot, as needed.
5. Determine maintenance actions.
6. Requisition parts, if required.
7. Perform required maintenance actions.
8. Verify MIs/Tis, as required.
9. Conduct quality control.
10. Document maintenance actions.

REFERENCES:

1. MCBul 3000_ Marine Corps Readiness Reportable Ground Equipment
 2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
 3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
 4. MCTP 3-40E Maintenance Operations
 5. TM 4700-15/1_ Ground Equipment Record Procedures
 6. TM 9-254 General Maintenance Procedures for Fire Control Materiel
 7. TM 9-258 Elementary Optics and Application to Fire Control Instruments
 8. UM 4400.125 GCSS-MC User Manual
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2171-OPS-2001: Supervise purge/charge equipment

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

READINESS-CODED: NO

DESCRIPTION: Purge devices include but are not limited to E1255, TS-10, N2-GEN Series.

MOS PERFORMING: 2171

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given organic TO&E assets, access to AIS and maintenance resources.

STANDARD: To restore material to a serviceable condition.

PERFORMANCE STEPS:

1. Verify inspection has been conducted.
2. Verify service has been performed.
3. Verify repair has been performed.
4. Verify recovery and evacuation, if applicable, has been conducted.
5. Verify modification, if applicable, has been conducted.
6. Verify quality control inspection has been conducted.

REFERENCES:

1. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
2. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
3. UM 4400.125 GCSS-MC User Manual

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CHAPTER 18

MOS 2181 INDIVIDUAL EVENTS

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CHAPTER 18

MOS 2181 INDIVIDUAL EVENTS

18000. PURPOSE. This chapter details the individual events that pertain to MOS 2181 Ground Ordnance Weapons Chief events. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

18001. EVENT CODING

Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology

a. Field one. This field represents the community. This chapter contains the following community codes:

<u>Code</u>	<u>Description</u>
2181	Ground Ordnance Weapons Chief

b. Field two. This field represents the functional/duty area. This chapter contains the following functional/duty areas:

<u>Code</u>	<u>Description</u>
ADMN	Administration
OPS	Operations

c. Field three. This field provides the level at which the event is accomplished and numerical sequencing of events. This chapter contains the following event levels:

<u>Code</u>	<u>Description</u>
2000	Core Plus Skills

18002. INDEX OF 2000-LEVEL INDIVIDUAL EVENTS

Event Code	E-Coded	Event	Page
2181-ADMN-2001	NO	Manage ground ordnance weapons maintenance programs	18-2
2181-OPS-2001	NO	Manage ground ordnance weapons maintenance operations	18-3

18003. 2000-LEVEL EVENTS

2181-ADMN-2001: Manage ground ordnance weapons maintenance programs

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to perform maintenance related inspections, Infantry Weapons Gauge Calibrations Program (IWGCP), Enterprise lifecycle management program (ELMP), and warranty program.

MOS PERFORMING: 2181

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, TO&E Assets, and access to AIS.

STANDARD: To prioritize and manage weapons maintenance programs, increase equipment availability through the management of a comprehensive maintenance effort.

PERFORMANCE STEPS:

1. Identify mission requirements.
2. Analyze capabilities.
3. Perform maintenance related inspections.
4. Determine resource requirements.
5. Analyze external requirements.
6. Develop procedures to comply with functional areas of maintenance management programs.

REFERENCES:

1. Applicable technical references
2. DOD 4160.21-M-1 Defense Demilitarization Manual
3. MCLCAT Marine Corps Logistics Chain Analysis Team Checklist
4. MCO 4105.2 Marine Corps Warranty Program
5. MCO 4400.150 Consumer-Level Supply Policy
6. MCO 4400.201 Management of Property in the Possession of the Marine Corps
7. MCO 4400.82 Regulated/Controlled Item Management Manual
8. MCO 4710.8 DELETE Uniform Criteria for Repair Cost Estimated Used to Determine
9. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
10. MCO 4855.10 Product Quality Deficiency Report (PQDR) Program
11. MCO 5215.1 Marine Corps Directives Management Program
12. MCO 8400.6 Licensing Procedures for Ordnance Vehicles
13. TM 4700-15/1 Ground Equipment Record Procedures
14. Unit T/O&E Unit's Table of Organization and Equipment

2181-OPS-2001: Manage ground ordnance weapons maintenance operations

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

READINESS-CODED: NO

DESCRIPTION: Includes but not limited to personnel assignments, MOS training, equipment distribution, physical security, Arms Ammunition and Explosive programs, safety programs, and Armory Operations.

MOS PERFORMING: 2181

GRADES: MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given commanders guidance, established policy and access to AIS.

STANDARD: To ensure compliance with policies and procedures for operations related to ground ordnance resources.

PERFORMANCE STEPS:

1. Manage Employment of Ground Ordnance personnel.
2. Facilitate redistribution and fielding of equipment.
3. Manage Storage of AA&E.
4. Manage Issue and recover AA&E.
5. Manage accountability of serialized/non-serialized assets.
6. Manage Completion of required NAVMC forms, records and AIS.
7. Manage Compliance with armory security procedures.
8. Manage the transport of AA&E assets.
9. Manage ground ordnance safety programs.

REFERENCES:

1. MCO 11262.2_ Standard Policy for Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
2. MCO 4790.2_ Field-Level Maintenance Management Policy (FLMMP)
3. MCO 4790.25_ Ground Equipment Maintenance Program (GEMP)
4. MCO 5500.6_ Arming of Law Enforcement and Security Personnel and the Use of Force
5. MCO 5530.14_ Marine Corps Physical Security Program Manual
6. MCO 8400.6 Licensing Procedures for Ordnance Vehicles
7. MCRP 4-11.3F Convoy Operations Handbook
8. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
9. MCTP 3-40E Maintenance Operations

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APPENDIX A

ACRONYMS

1STLT - First Lieutenant
2DLT - Second Lieutenant
AA&E - arms ammunition and explosive
AAV - Assault Amphibious Vehicle
ABV - Assault Breacher Vehicle
AC - Alternating Current
AEMC - Artillery Mobile Expandable Container
AIS - Automated Information System
ALA/LNR -
AVLB - Armored Vehicle-Launched Bridge
CAD/CAM - Computer-Aided Design and Manufacturing
CAPT - Captain
CM - Corrective Maintenance
CNC - Computer Numerical Control
CPL - Corporal
CRF - Corrosion Repair Facility
CWO-2 - Chief Warrant Officer-2
CWO-3 - Chief Warrant Officer-3
CWO-4 - Chief Warrant Officer-4
CWO-5 - Chief Warrant Officer-5
DAGR - Defense Advanced GPS Receiver
DOD - Department of Defense
DVE - Driver's Vision Enhancer
EDL - Equipment Density List
FM - Field Manual
FOV - Family of Vehicles
FRAGO - Fragmentary Order
GCSS-MC - Global Combat Support Systems - Marine Corps
G-M - Geometric - Machine code
GYSGT - Gunnery Sergeant
IAW - In Accordance with
IROAN - Inspect and Repair only as necessary
IVS - Improved Vision System
L/S - Live/Simulated
LAV - Light Armored Vehicle
LAV-ATM - Light Armored Vehicle Anti-Tank Modernization
LCPL - Lance Corporal
LTCOL - Lieutenant Colonel
MAJ - Major
MCBUL -Marine Corps Bulletin
MCO - Marine Corps Order
MCRP - Marine Corps Reference Publication
MCWP - Marine Corps Warfighting Publication
MET - Mission Essential Task
MGYSGT - Master Gunnery Sergeant
MI - Modification Instruction
MOJT - Managed On the Job Training
MOS - Military Occupational Specialty
MSGT - Master Sergeant
MSTP- Marine Air Ground Task Force (MAGTF) Staff Training Program

MTVR - Medium Tactical Vehicle Replacement
MTWS - Marine Air Ground Task Force (MAGTF) Tactical Warfare Simulation
NAVMC - Navy Marine Corps
ORM - Operational Risk Management
PAM - Pamphlet
PFC - Private First Class
PMCS - Preventive Maintenance Checks and Services
PVT - Private
PWRC - Precision Weapons Repair Course
RBP - Rifle Build / Rebuild Procedures
RS - Rebuild Standard
SGT - Sergeant
SL - Stock List
SSGT - Staff Sergeant
TC - Training Circular
TI - Technical Instruction
TM - Technical Manual
TMDE - Test Measurement Diagnostic Equipment
TO&E - Table of Organization and Equipment
TSM - Technical Shop Mathematics
UM - User's Manual
UTCP - Upgraded Tank Commander's Panel
WO-1 - Warrant Officer-1

GRDORDMAINT T&R MANUAL

APPENDIX B

TERMS AND DEFINITIONS

Terms in this glossary are subject to change as applicable orders and directives are revised. Terms established by Marine Corps orders or directives take precedence after definitions found in Joint Publication 1-02, DOD Dictionary of Military and Associated Terms.

A

After Action Review. A professional discussion of training events conducted after all training to promote learning among training participants. The formality and scope increase with the command level and size of the training evolution. For longer exercises, they should be planned for at predetermined times during an exercise. The results of the AAR shall be recorded on an after action report and forwarded to higher headquarters. The commander and higher headquarters use the results of an AAR to reallocate resources, reprioritize their training plan, and plan for future training.

Assessment. An informal judgment of the unit's proficiency and resources made by a commander or trainer to gain insight into the unit's overall condition. It serves as the basis for the midrange plan. Commanders make frequent use of these determinations during the course of the combat readiness cycle in order to adjust, prioritize or modify training events and plans.

C

Chaining. A process that enables unit leaders to effectively identify subordinate collective events and individual events that support a specific collective event. For example, collective training events at the 4000-Level are directly supported by collective events at the 3000-Level. When a higher level event by its nature requires the completion of lower level events, they are "chained"; Sustainment credit is given for all lower level events chained to a higher event.

Collective Event. A clearly defined, discrete, and measurable activity, action, or event (i.e., task) that requires organized team or unit performance and leads to accomplishment of a mission or function. A collective task is derived from unit missions or higher-level collective tasks. Task accomplishment requires performance of procedures composed of supporting collective or individual tasks. A collective task describes the exact performance a group must perform in the field under actual operational conditions. The term "collective" does not necessarily infer that a unit accomplishes the event. A unit, such as a squad or platoon conducting an attack; may accomplish a collective event or, it may be accomplished by an individual to accomplish a unit mission, such as a battalion supply officer completing a reconciliation of the battalion's CMR. Thus, many collective events will have titles that are the same as individual events; however, the standard and condition will be different because the scope of the collective event is broader.

Collective Training Standards (CTS). Criteria that specify mission and functional area unit proficiency standards for combat, combat support, and combat service support units. They include tasks, conditions, standards, evaluator instruction, and key indicators. CTS are found within collective training events in T&R Manuals.

Combat Readiness Cycle. The combat readiness cycle depicts the relationships within the building block approach to training. The combat readiness cycle progresses from T&R Manual individual core skills training, to the accomplishment of collective training events, and finally, to a unit's participation in a contingency or actual combat. The combat readiness cycle demonstrates the relationship of core capabilities to unit combat readiness. Individual core skills training and the training of collective events lead to unit proficiency and the ability to accomplish the unit's stated mission.

Combat Readiness Percentage (CRP). The CRP is a quantitative numerical value used in calculating collective training readiness based on the E-Coded events that support the unit METL. CRP is a concise measure of unit training accomplishments. This numerical value is only a snapshot of training readiness at a specific time. As training is conducted, unit CRP will continuously change.

Condition. The condition describes the training situation or environment under which the training event or task will take place. Expands on the information in the title by identifying when, where and why the event or task will occur and what materials, personnel, equipment, environmental provisions, and safety constraints must be present to perform the event or task in a real-world environment. Commanders can modify the conditions of the event to best prepare their Marines to accomplish the assigned mission (e.g. in a desert environment; in a mountain environment; etc.).

Core Competency. Core competency is the comprehensive measure of a unit's ability to accomplish its assigned MET. It serves as the foundation of the T&R Program. Core competencies are those unit core capabilities and individual core skills that support the commander's METL and T/O mission statement. Individual competency is exhibited through demonstration of proficiency in specified core tasks and core plus tasks. Unit proficiency is measured through collective tasks.

Core Capabilities. Core capabilities are the essential functions a unit must be capable of performing during extended contingency/combat operations. Core unit capabilities are based upon mission essential tasks derived from operational plans; doctrine and established tactics; techniques and procedures.

Core Plus Capabilities. Core plus capabilities are advanced capabilities that are environment, mission, or theater specific. Core plus capabilities may entail high-risk, high-cost training for missions that are less likely to be assigned in combat.

Core Plus Skills. Core plus skills are those advanced skills that are environment, mission, rank, or billet specific. 2000-Level training is designed to make Marines proficient in core skills in a specific billet or at a specified rank at the Combat Ready level. 3000-8000-Level training produces combat leaders and fully qualified section members at the Combat Qualified level. Marines trained at the Combat Qualified level are those the commanding officer feels are capable of accomplishing unit-level missions and

of directing the actions of subordinates. Many core plus tasks are learned via MOJT, while others form the base for curriculum in career level MOS courses taught by the formal school.

D

Defense Readiness Reporting System (DRRS). A comprehensive readiness reporting system that evaluates readiness on the basis of the actual missions and capabilities assigned to the forces. It is a capabilities-based, adaptive, near real-time reporting system for the entire Department of Defense.

Deferred Event. A T&R event that a commanding officer may postpone when in his or her judgment, a lack of logistic support, ammo, ranges, or other training assets requires a temporary exemption. CRP cannot be accrued for deferred "E-Coded" events.

Delinquent Event. An event becomes delinquent when a unit exceeds the sustainment interval for that particular event. The individual or unit must update the delinquent event by first performing all prerequisite events. When the unit commander deems that performing all prerequisite is unattainable, then the delinquent event will be re-demonstrated under the supervision of the appropriate evaluation authority.

E

E-Coded Event. An "E-Coded" event is a collective T&R event that is a noted indicator of capability or, a noted collective skill that contributes to the unit's ability to perform the supported MET. As such, only "E-Coded" events are assigned a CRP value and used to calculate a unit's CRP.

Evaluation. Evaluation is a continuous process that occurs at all echelons, during every phase of training and can be both formal and informal.

Evaluations ensure that Marines and units are capable of conducting their combat mission. Evaluation results are used to reallocate resources, reprioritize the training plan, and plan for future training.

Event (Training). 1) An event is a significant training occurrence that is identified, expanded and used as a building block and potential milestone for a unit's training. An event may include formal evaluations. 2) An event within the T&R Program can be an individual training evolution, a collective training evolution or both. Through T&R events, the unit commander ensures that individual Marines and the unit progress from a combat capable status to a Fully Combat Qualified (FCQ) status.

Event Component. The major procedures (i.e., actions) that must occur to perform a Collective Event to standard.

Exercise Commander (EC). The Commanding General, Marine Expeditionary Force or his appointee will fill this role, unless authority is delegated to the respective commander of the Division, Wing, or FSSG. Responsibilities and functions of the EC include: 1) designate unit(s) to be evaluated, 2) may designate an exercise director, 3) prescribe exercise objectives and T&R events to be evaluated, 4) coordinate with commands or agencies external to the Marine Corps and adjacent Marine Corps commands, when required.

Exercise Director (ED). Designated by the EC to prepare, conduct, and report all evaluation results. Responsibilities and functions of the ED include:

1) Publish a letter of instruction (LOI) that: delineates the T&R events to be evaluated, establishes timeframe of the exercise, lists responsibilities of various elements participating in the exercise, establishes safety requirements/guidelines, and lists coordinating instructions. 2) Designate the TEC and TECG to operate as the central control agency for the exercise. 3) Assign evaluators, to include the senior evaluator, and ensure that those evaluators are properly trained. 4) Develop the general exercise scenario taking into account any objectives/events prescribed by the EC. 5) Arrange for all resources to include: training areas, airspace, aggressor forces, and other required support.

M

Marine Corps Ground Training and Readiness (T&R) Program. The T&R Program is the Marine Corps' primary tool for planning and conducting training, for planning and conducting training evaluation, and for assessing training readiness. The program will provide the commander with standardized programs of instruction for units within the ground combat, combat support, and combat service support communities. It consolidates the ITS, CTS, METL and other individual and unit training management tools. T&R is a program of standards that systematizes commonly accepted skills, is open to innovative change, and above all, tailors the training effort to the unit's mission. Further, T&R serves as a training guide and provides commanders an immediate assessment of unit combat readiness by assigning a CRP to key training events. In short, the T&R Program is a building block approach to training that maximizes flexibility and produces the best-trained Marines possible.

Mission Essential Task(s) MET(s). A MET is a collective task in which an organization must be proficient in order to accomplish an appropriate portion of its wartime mission(s). MET listings are the foundation for the T&R Manual; all events in the T&R Manual support a MET.

Mission Essential Task List (METL). Descriptive training document that provides units a clear, war fighting focused description of collective actions necessary to achieve wartime mission proficiency. The service-level METL, that which is used as the foundation of the T&R Manual, is developed using Marine Corps doctrine, operational plans, T/Os, UJTL, UNTL, and MCTL. For community based T&R Manuals, an occupational field METL is developed to focus the community's collective training standards. Commanders develop their unit METL from the service-level METL, operational plans, contingency plans, and SOPs.

O

Operational Readiness (DOD, NATO). OR is the capability of a unit/formation, ship, weapon system, or equipment to perform the missions or functions for which it is organized or designed. May be used in a general sense or to express a level or degree of readiness.

P

Prerequisite Event. Prerequisites are the academic training and/or T&R events that must be completed prior to attempting the event.

R

Readiness (DOD). Readiness is the ability of U.S. military forces to fight and meet the demands of the national military strategy. Readiness is the synthesis of two distinct but interrelated levels: a) Unit readiness--The ability to provide capabilities required by combatant commanders to execute assigned missions. This is derived from the ability of each unit to deliver the outputs for which it was designed. b) Joint readiness--The combatant commander's ability to integrate and synchronize ready combat and support forces to execute assigned missions.

S

Section Skill Tasks. Section skills are those competencies directly related to unit functioning. They are group rather than individual in nature, and require participation by a section (S-1, S-2, S-3, etc).

Simulation Training. Simulators provide the additional capability to develop and hone core and core plus skills. Accordingly, the development of simulator training events for appropriate T&R syllabi can help maintain valuable combat resources while reducing training time and cost. Therefore, in cases where simulator fidelity and capabilities are such that simulator training closely matches that of actual training events, T&R Manual developers may include the option of using simulators to accomplish the training. CRP credit will be earned for E-Coded simulator events based on assessment of relative training event performance.

Standard. A standard is a statement that establishes criteria for how well a task or learning objective must be performed. The standard specifies how well, completely, or accurately a process must be performed or product produced. For higher-level collective events, it describes why the event is being done and the desired end-state of the event. Standards become more specific for lower-level events and outline the accuracy, time limits, sequencing, quality, product, process, restrictions, etc., that indicate the minimum acceptable level of performance required of the event. At a minimum, both collective and individual training standards consist of a task, the condition under which the task is to be performed, and the evaluation criteria that will be used to verify that the task has been performed to a satisfactory level.

Sustainment Training. Periodic retraining or demonstration of an event required maintaining the minimum acceptable level of proficiency or capability required to accomplish a training objective. Sustainment training goes beyond the entry-level and is designed to maintain or further develop proficiency in a given set of skills.

Systems Approach to Training (SAT). An orderly process for analyzing, designing, developing, implementing, and evaluating a unit's training program to ensure the unit, and the Marines of that unit acquire the knowledge and skills essential for the successful conduct of the unit's wartime missions.

T

Training Task. This describes a direct training activity that pertains to an individual Marine. A task is composed of 3 major components: a description of what is to be done, a condition, and a standard.

Technical Exercise Controller (TEC). The TEC is appointed by the ED, and usually comes from his staff or a subordinate command. The TEC is the senior evaluator within the TECG and should be of equal or higher grade than the commander(s) of the unit(s) being evaluated. The TEC is responsible for ensuring that the evaluation is conducted following the instructions contained in this order and MCO 1553.3A. Specific T&R Manuals are used as the source for evaluation criteria.

Tactical Exercise Control Group (TECG). A TECG is formed to provide subject matter experts in the functional areas being evaluated. The benefit of establishing a permanent TECG is to have resident, dedicated evaluation authority experience, and knowledgeable in evaluation technique. The responsibilities and functions of the TECG include: 1) developing a detailed exercise scenario to include the objectives and events prescribed by the EC/ED in the exercise LOI; 2) conducting detailed evaluator training prior to the exercise; 3) coordinating and controlling role players and aggressors; 4) compiling the evaluation data submitted by the evaluators and submitting required results to the ED; 5) preparing and conducting a detailed exercise debrief for the evaluated unit(s).

Training Plan. Training document that outlines the general plan for the conduct of individual and collective training in an organization for specified periods of time.

U

Unit CRP. Unit CRP is a percentage of the E-Coded collective events that support the unit METL accomplished by the unit. Unit CRP is the average of all MET CRP.

Unit Evaluation. All units in the Marine Corps must be evaluated, either formally or informally, to ensure they are capable of conducting their combat mission. Informal evaluations should take place during all training events.

The timing of formal evaluations is critical and should, when appropriate, be directly related to the units' operational deployment cycle. Formal evaluations should take place after the unit has been staffed with the majority of its personnel, has had sufficient time to train to individual and collective standards, and early enough in the training cycle so there is sufficient time to correctly identified weaknesses prior to deployment. All combat units and units' task organized for combat require formal evaluations prior to operational deployments.

Unit Training Management (UTM). Unit training management is the use of the SAT and Marine Corps training principles in a manner that maximizes training results and focuses the training priorities of the unit on its wartime mission. UTM governs the major peacetime training activity of the Marine Corps and applies to all echelons of the Total Force.

W

Waived Event. An event that is waived by a commanding officer when in his or her judgment, previous experience or related performance satisfies the requirement of a particular event.

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APPENDIX C

SIMULATION

1. Listed in this appendix are applicable simulators/simulations available to improve training for both individual Marines and unit training. Simulators and simulations provide the capability to develop and hone core and core plus competencies and capabilities. Accordingly, the use of training modeling and simulation systems for appropriate T&R events can help maintain valuable combat resources while reducing training time, cost, and risk. For more information regarding training Modeling & Simulation (M&S) Systems, review website:
<https://ehqmc.usmc.mil/org/mccdc/TECOM/directorates/MTSB/Internal/default.aspx>
x

1. Simulation: A model of a system animated discretely or continuously over a period of time. A simulation may be closed-loop (i.e., it executes based in initial inputs without human intervention), or it may be open-loop (i.e., human input to alter the variables in the system during execution is allowed). A simulation is an approximation of how the modeled system will behave over time. Simulations are constructed based on verified and validated mathematical models of actual systems. Simulations can be very simple or complex depending on the degree of fidelity and resolution needed to understand the behavior of a system.

2. Simulator: A simulator is the physical apparatus employed as the interface for humans to interact with a model or observe its output. A simulator has input controls and outputs in the form of human sensory stimuli (visual, auditory, olfactory, tactile/haptic, and taste). For instance, some of the features of the vehicle cab (the seat, steering wheel, turn signals, accelerator pedal, brakes, and windshield) and projection screen. Both the vehicle cab and projection screen are the interface by which a human being interacts with the simulated environment of a driving a vehicle and observe the outputs of the mathematical models of vehicle dynamics.

3. Model: A mathematical representation of the behavior (i.e., shows the behavior of projectiles, combat simulations, etc.) of a system at a distinct point in time.

4. Live: Real people operates real systems to include both live people operating real platforms or systems on a training range and battle staffs from joint, component or service tactical headquarters using real world command and control systems.

5. Virtual: Real people operating simulated systems. Virtual simulations inject humans-in-the-loop in a central role by exercising motor control skills (e.g., flying an air platform simulator, engaging targets in indoor simulated marksmanship trainer), decision skills, and/or communication skills.

6. Constructive: Models and simulations that involve simulated people operating simulated systems (i.e., MAGTF Tactical Warfare

Simulation). Real people make inputs to such simulations, but are not involved in determining the outcomes.

7. Live, Virtual and Constructive (LVC) Training

Environment: Defined by combining any of the three training domains LVC to create a common operational environment, by which units can interact across LVC domains as though they are physically located in the same operational environment.

8. Distance Learning: Any instruction and evaluation

provided through a variety of DL delivery systems (i.e., MarineNet) where the students and instructors are separated by time and/or location.

1. The identification of an event as suitable for simulation

requires unit personnel to schedule training within a respective simulation center, approved by CG TECOM.

2. CG TECOM simulation centers will provide unit commanders with

official correspondence for any instance in which an approved simulation center cannot accommodate unit training requests. If a commander receives such notification, he or she can elect to conduct live set training. Listed below are applicable systems:

a. Supporting Arms Virtual Trainer (SAVT) is a fixed-site, partial dome (260 X 60 degree), virtual immersive training environment for Joint Terminal Attack Controller (JTACs), Forward Air Controllers (FACs), and Joint Forward Observers (JFOs). SAVT provides a "hands-on," immersive, mission-based, combined arms training environment. Personnel shall use training scenarios that require placement of tactical ordnance on selected targets using Joint Close Air Support (JCAS) procedures and observed fire procedures for Naval Surface Fire Support (NSFS), Artillery and Mortar fire. SAVT will provide a briefing and after action room for a group of students to monitor, review mission-based training events, and conduct after-action discussions. SAVT trains Marines to approved standards of training and readiness (T&R) tasks.

b. Indoor Simulated Marksmanship Trainer (ISMT) is an interactive three dimensional audio/video weapons simulator that provides enhanced small arms training in marksmanship, weapons employment, indirect fire, and tactical decision-making for Marines. The ISMT simulates range firing for basic infantry weapons, tactical employment training, call for fire, and shoot/no shoots decision-making drills. The ISMT can be utilized to train individuals, fire teams, and squads effectively and efficiently to the approved standards of combat skills and readiness.

c. Combat Convoy Simulator (CCS) is an interactive immersive training environment for convoy operations during combat, focusing on command and control. Other training capabilities include call for fire, call for close air support, mounted patrols, logistics support, high target extraction, MEDEVAC, and procedures for use of weapons in compliance with rules of engagement (ROE) and local TTPs. A single CCS suite of six vehicles provides for individual, crew, and platoon level training (up to 30 Marines at a time). The CCS trains Marines to approved standards of combat skills and readiness.

d. Deployable Virtual Training Environment (DVTE) is a deployable laptop PC based simulation system capable of emulating organic and supporting Infantry Battalion weapons systems and training scenarios to facilitate T&R

based training. DVTE provides each installation and deployed Marine Forces with MAGTF (MEU level) Staff training, individual and collective skills sustainment, rapid planning, and almost spontaneous mission rehearsal capability. DVTE increases training of individual and unit core skills enhancing a rapid, innovative and interactive small-unit leader decision making, and increased combined arms Training and pre-certification capability. The following is a list of the DVTE training applications/capabilities:

e. Virtual Battlespace 2 (VBS2) is an interactive, three-dimensional synthetic environment in which small unit tactics may be practiced among team members. Photo-realistic terrain, user created mission scenarios, and variable environmental conditions enhance the team training experience. Mission planning and mission rehearsal can be executed from squad to platoon level. VBS2 can be used to support Fire Support Training, convoy operations and tactical guided discussions.

f. Recognition of Combatants (ROC) a series consisting of applications covering Improvised Explosive Device (ROC-IED), Suicide Bomber (ROC-SB), Vehicle (ROC-V), and Aerial (ROC-Aerial) are self paced computer based training tools designed to improve awareness and recognition of various combatant capabilities and functional considerations.

g. Operational and Tactical Language and Cultural Training System (OTCLTS) is a self paced language and cultural training application that allows the user to learn Iraqi Arabic, Indonesian, Pashto, Dari, and French languages along with cultural considerations.

h. Forward Observer PC Simulator (FOPCSIM) is an individual Fires trainer which provides training on the basic concepts of fire support. FOPCSIM is a procedural trainer for artillery and mortar Call for Fire. FOPCSIM is also the forward observer component of the Deployable Virtual Training Environment (DVTE) Combined Arms Network (CAN) that provides a training tool for integration of artillery and close air support with maneuver forces.

i. Combined Arms Planning Tool (CAPT) is a standalone tool that can be used to enter and test all elements of your fire support plan. Doctrinal rules have been incorporated into the program, so that once the fire support plan is entered, CAPT runs a "rules based" test on the plan to identify potential trouble areas.

j. Combined Arms Network (CAN) is a computer based training tool that provides standard based training for individual Forward Observers, Forward Air Controllers and Joint Terminal Attack Controllers (JTAC) as well as team training for company fire support teams (FiST). CAN currently supports JTAC/JFO certification training under the TACP T&R Manual.

k. Combined Arms Command and Control Trainer Upgrade System (CACCTUS) provides an institutional means to effectively train Marine staffs and units in all aspects of effectively integrating combined arms assets. The CACCTUS capability provides the full range of combined arms staff training and provides state of the art modeling and simulation networking technology to provide realistic Combined Arms Fire Support for the Marine air-ground task force (MAGTF). The high resolution combat simulation provides the ability to provide ground truth in the exercise, stimulate organic C2 Systems, visually display the impact of supporting arms fires and realistically portray the

coordinated actions of friendly forces and the action/reaction of the enemy maneuver forces. The automated communication system replicates tactical communication nets required for command and control of exercising units allowing the training audience to communicate normal warfighting communications and process orders and other information/questions to response cell controllers. CACCTUS provides an automated after action review capability for live and simulated training thereby allowing the Marine Corps to meet its service training requirements.

2. For more information on current simulations, contact your local Simulation Centers. The following is the contact information:

a. Battle Simulation Centers (Scheduling Office)

(1) I MEF: (760) 725-2385

(2) II MEF: (910) 451-5435

(3) III MEF:

- MCB Camp Butler: 011-81-611-722-7219/ DSN 315 622-7219/7516
- MCB Hawaii: Simulators & Trainers must be scheduled via RFMSS. 3MAR Simulations Center: (808) 257-2440/ DSN 457-2440 POC Sgt Brannan

(4) MAGTF TC: (760) 830-1366/1382

b. Ground Training Simulators (Scheduling Office)

(1) MCB Camp Lejeune: (910) 451-7392

(2) MCB Camp Pendleton: Simulators & Trainers can be scheduled via RFMSS. Training Support Division Help Desk/Ref Desk (760) 725-4444.

(3) MCB Camp Butler: Tactical Training Devices and Simulators Support Section Help Desk, 011-81-98-969-2610/DSN: 623-2610.

(4) MCB Hawaii: Simulators & Trainers must be scheduled via RFMSS. G3 Ops & Training Scheduling Office: (808) 257-8816/ DSN 457-8816. Modeling & Simulations Division (M&S): (808) 257-1110/ DSN 457-1110.

(5) MAGTF-TC: DVTE (760) 830-5622; SAVT (760) 362-2324; CACCTUS (760) 830-1382; CCS (760) 830-4192 & ISMT (760) 830- 4187. Schedule ODS and HMMWV Egress Assistance Trainer via RFMSS.

3. The table listed below identifies simulation requirements, identified by each specific simulation asset.

EVENT	SIMULATED	SUITABILITY	SIMULATOR	UOM	HOURS	PM
ORD-VREC-7001	Partial	L/S	MTWS	Unit Hours	6	Y
ORD-VREC-8001	Partial	L/S	MTWS	Unit Hours	6	Y

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APPENDIX D

MOS-SPECIFIC PHYSICAL STANDARDS

1. Purpose. This appendix identifies MOS-specific physical standards and describes the execution of assessments designed to evaluate a Marine's physical capabilities, in order to provide Commanders reasonable assurance a Marine has the physical capacity to perform the regularly assigned and recurrent duties of the MOS.

2. Evaluation. Marines must either 'pass' or 'fail' event or performance step assessments to the standards set forth within this manual.

3. Requirements. The following events are to be performed to the standard contained in this appendix during entry level training in order to receive initial MOS qualification.

a. For the 2131 MOS:

2131-MED-1001, Evacuate a casualty from the bed of MTVR
0300-MED-1001, Performance Step 1 Ensure that you and the casualty are no longer under direct enemy fire
0300-TVEH-1001, Assist in loading and unloading a tactical vehicle

b. For the 2141 MOS:

2141-MED-1001, Perform individual actions to evacuate injured crewman
21XX-VOPS-1002, Perform equipment recovery operations
0300-MED-1001, Performance Step 1 Ensure that you and the casualty are no longer under direct enemy fire
0300-TVEH-1001, Assist in loading and unloading a tactical vehicle

c. For the 2146 MOS:

2146-MAIN-1006, Conduct field level corrective maintenance on TANK FOV electrical system
2146-MED-1001, Perform individual actions to evacuate injured crewman
21XX-VOPS-1002, Perform equipment recovery operations
2146-VOPS-1001, Operate commander's station on Tank/ABV
0300-MED-1001, Performance Step 1 Ensure that you and the casualty are no longer under direct enemy fire.
0300-TVEH-1001, Assist in loading and unloading a tactical vehicle

d. For the 2147 MOS:

2147-MED-1001, Perform individual actions to evacuate injured crewman
21XX-VOPS-1002, Perform equipment recovery operations
2147-MAIN-1006, Perform field level corrective maintenance on LAV FOV electrical system
0300-MED-1001, Performance Step 1 Ensure that you and the casualty are no longer under direct enemy fire.
0300-TVEH-1001, Assist in loading and unloading a tactical vehicle

4. Evaluation Sequencing. The MOS-specific physical standards events are not intended to be conducted in a single, continuous session. However, if the Commander schedules these events to occur in sequence within a 24-hour period, adequate transition between events should permit Marines the opportunity to recover, stretch, hydrate, and prepare for the next event. Total rest permitted between events is determined at the Commander's discretion.

5. Uniform and Equipment

a. Uniform

(1) Fighting Load. See NAVMC 3500.44_ (Infantry T&R Manual) Appendix F, Figure F-1, for the Fighting Load gear list. Additionally, each Marine will carry their assigned personal weapon (M4, M-16A4, or IAR) and appropriate SL-3[seven (7) magazines (twenty-two (22) magazines for IAR w/ assault pack), combat assault sling, PEQ-15/16, RCO, Bayonet, weapons cleaning gear, and M203 or M32 (if assigned)]. This load will be worn/carried by MOSs listed within paragraph 3.a. when executing the following events:

0300-MED-1001, performance step 1
0300-TVEH-1001

(2) Utility uniform with blouse removed. This uniform will be worn by MOSs listed within paragraph 3.a. when executing the following events:

2131-MED-1001, Performance step 5
2141-MED-1001, Performance step 5
21XX-VOPS-1002, Performance step 3
2146-MED-1001, Performance step 5
21XX-VOPS-1002, Performance step 3
2147-MED-1001, Performance step 5
21XX-VOPS-1002, Performance step 3

(3) The Fighting Load with either the Combat Vehicle Crewman (CVC) suit will be worn/carried by MOS listed within paragraph 3.a. when executing the following events:

2146-MAIN-1006, Performance step 6
2146-VOPS-1001, Performance step 1
2147-MAIN-1006, Performance step 6

b. Equipment

(1) The following equipment is required to conduct Event 21XX-VOPS-1002.

(a) Olympic lifting bar with a total of 150 lbs. of weight.

(2) The following equipment is required to conduct Event 0300-TVEH-1001.

(a) Mock-up MK-19. Local commanders have the discretion to use a training aid of similar dimensions in place of a mock up MK-19 should the mock up not be available. Use of an actual MK-19 is not recommended due to potential damage to weapon.

(3) The following equipment is required to conduct Events 0300-MED-1001.

(a) A timepiece (digital or stopwatch) that accurately measures time to the second.

(b) A 25 foot measuring tape.

(c) Training mannequin (165 lbs.) wearing load bearing vest or plate carrier weighted to 40lbs. Local commanders have the discretion to use a training aid of similar dimensions in place of a weighted training mannequin should this be difficult to obtain. Use of a Marine weighing 165 lbs. wearing 40 lbs. of gear is not recommended.

(d) Cones, pylons, utility flags, sand bags or other visible markers.

(4) The following equipment is required to conduct Events 2131-MED-1001, 2141-MED-1001, 2146-MED-1001, and 2147-MED-1001.

(a) One Olympic lifting bar with a total of 115 lbs. of weight.

(5) The following equipment is required to conduct Event 2146-VOPS-1002.

(a) A timepiece (digital or stopwatch) that accurately measures time to the second.

(b) An ABV or AVLB with operational TC station and driver's station.

(6) The following equipment is required to conduct the event 2146-MAIN-1006.

(a) A timepiece (digital or stopwatch) that accurately measures time to the second.

(b) An ABV/AVLB battery mock-up. Local commanders have the discretion to use a training aid of similar dimensions in place of a mock-up battery should the mock-up not be available. Use of an actual battery is not recommended due to potential damage to the battery and safety concerns.

(7) The following equipment is required to conduct the event 2147-MAIN-1006.

(a) A timepiece (digital or stopwatch) that accurately measures time to the second.

(b) An LAV battery mock-up. Local commanders have the discretion to use a training aid of similar dimensions in place of a mock-up battery should the mock-up not be available. Use of an actual battery is not recommended due to potential damage to the battery and safety concerns.

5. Events Assessed. The following paragraphs outline the expected conduct of assessments, in support of MOS qualification:

a. Event 21XX-VOPS-1002 Perform equipment recovery operations

(1) Description: The functional movement for this assessment is a deadlift. The deadlift will be a single repetition lift and hold of an Olympic bar with a total weight of 150 lbs.

(2) Environment: This assessment may be conducted either indoors or outdoors, on a generally level and firm surface.

(3) Standard: Deadlift an Olympic bar with a total weight of 150 lbs, and then lower to the deck.

(4) Execution: Deadlift and hold an Olympic bar with a total weight of 150 lbs. at knuckle height for 30 seconds, and then lower to the deck. This event is Pass/Fail.

(a) The Marine will begin with feet shoulder width apart or under the hips. The bar should be above the boot laces at the start and shoulders slightly forward of the bar. Either the overhand, underhand or alternating grip may be used.

(b) The preparatory command is "Ready" and the execute command is "Begin." On the command "Begin," the Marine will execute a deadlift. When executing the deadlift, keep your chest high and maintain the curve in the lower back. While keeping the arms straight during the lift, keep the weight on the heels and extend the knees first, then hips at the top of the lift. The lift is completed when the hips are extended, knees are straight and shoulders behind the bar.

(c) Marines are encouraged to 'use-their-legs,' in order to lift the Olympic bar, and to avoid 'lifting-with-their-back.'

(d) Once the deadlift position has been achieved, and the Olympic bar has been lifted to knuckle height, the Marine will maintain that position for 30 seconds. After 30 seconds the Olympic bar will be lowered to the deck in a fluid, controlled motion while maintaining the curve in the lower back while doing so.

b. 2131-MED-1001, 2141-MED-1001, 2146-MED-1001 and 2147-MED-1001, Perform individual actions to evacuate injured crewman

(1) Description. The functional movement for this assessment is similar to a clean-and-press. The clean-and-press will be a single repetition lift of an Olympic bar with a total weight of 115 lbs.

(2) Environment. This assessment may be conducted either indoors or outdoors, on a generally level and firm surface.

(3) Standard. Clean-and-press an Olympic bar with a total weight of 115 lbs, and then lower to the deck.

(4) Execution

(a) The Marine will begin with feet shoulder width apart or under the hips. The bar should be above the boot laces at the start. Only the overhand grip can be used in this lift.

(b) The preparatory command is "Ready" and the execute command is "Begin." On the command "Begin," the Marine will execute a clean and press. While the clean-and-press occurs in a fluid motion, the first move of the lift is the clean. The clean begins by lifting the bar with arms locked, and the bar close to the body. The cleaning motion ends when the shoulders are fully shrugged and the hips, knees, and ankles are extended. At this point, drop underneath the bar to catch the weight at shoulder level. The next motion of the lift is the press. Dip by slightly breaking at the hips and knees, and then drive upward with the hips and shoulders until the arms are locked out and the upper arm is next to the ear.

(c) Marines are encouraged to 'use-their-legs,' in order to lift the Olympic bar, and to avoid 'lifting-with-their-back.' However, no penalty will be assessed if Marine chooses not to use their legs.

(d) Once elbow lock-out has occurred, the Olympic bar will be lowered in a fluid, controlled motion from shoulder-height, then to the deck, and neither thrown nor dropped. While lowering the bar to the deck, Marines must maintain a supportive curvature of the spine, and bend their knees.

c. 0300-TVEH-1001 Assist in loading and unloading a tactical vehicle

(1) Description. The functional movement for this assessment is similar to a clean-and-press.

(2) Refer to NAVMC 3500.44_ Infantry T&R manual Appendix F for follow on instruction in the conduct of loading and unloading a tactical vehicle.

d. 0300-MED-1001 Perform tactical field care on a casualty, performance step 1.

(1) Description. This is a 50 meter movement, simulating moving from a covered and concealed position, to a casualty's position, and dragging that casualty out of direct fire to a safe position.

(2) Refer to NAVMC 3500.44_ Infantry T&R manual Appendix F for follow on instruction in the conduct of the Casualty Drag.

e. 2146-VOPS-1001 Operate commander's station on ABV

(1) Description. The functional movement for this assessment is similar to a clean-and-press. The clean-and-press will be a single repetition lift of an Olympic bar with a total weight of 115 lbs.

(2) Environment. This assessment may be conducted either indoors or outdoors, on a generally level and firm surface.

(3) Standard. Clean and press an Olympic bar with a total weight of 115 lbs., and then lower to the deck.

(4) Execution

(a) The Marine will begin seated in the TC station or driver station within the ABV or AVLB.

(b) The preparatory command is "Ready" and the execute command is "Begin." On the command "Begin," the Marine will grasp the TC hatch or

driver's station, and using one hand will press upward to open the hatch. Once open, the Marine will secure the hatch.

(c) Once the hatch is secured time will stop.

e. 2146-MAIN-1006 Conduct field level corrective maintenance on TANK FOV electrical system

(1) Description. The battery lift simulates the crew task of loading batteries into the ABV / AVLB. A mock-up battery will be lifted from the deck three times to represent that crewmember's share of the task.

(2) Environment. This assessment may be conducted either indoors or outdoors, on a generally level and firm surface.

(3) Standard. Lift a mock-up ABV / AVLB battery three times from ground to chin-level and back to the ground within 1 minute 50 seconds or less, in order to simulate required movements normally associated with the battery's installation within the tank.

(4) Execution

(a) The Marine will either stand erect or crouched-down with both feet flat-the-ground. Distance between the Marine's feet should be shoulder-width apart. The Marine may choose to stand erect or crouched with feet staggered in a variation of the basic-warrior stance. The mock-up will be at rest, at the ground-level, directly in front of and reasonably close to the Marine's toes.

(b) The preparatory command is "Ready" and the execute command is "Begin." On the command "Begin," the Marine will lift the mock-up from the ground, to a point wherein the bottom of the mock-up breaks the plane of the Marine's chin. Once the plane has been broken, the mock-up will be lowered in a fluid, controlled motion from chin-height to the deck, and neither thrown nor dropped. While lowering the mock-up to the deck, Marines should maintain a supportive curvature of the spine, and bend their knees. One repetition will be counted once the mock-up has been placed on the deck. Repeat for a total of three repetitions.

(c) Marines are encouraged to 'use-their-legs,' in order to generate the mock-up's upward momentum. However, no penalty will be assessed if Marines choose not to use their legs.

f. 2147-MAIN-1006 Perform field level corrective maintenance on LAV FOV electrical system

(1) Description. The battery lift simulates the crew task of loading batteries into the LAV. A mock-up battery will be lifted from the deck three times to represent that crewmember's share of the task.

(2) Environment. This assessment may be conducted either indoors or outdoors, on a generally level and firm surface.

(3) Standard. Lift a mock-up LAV battery three times from ground to chin-level and back to the ground within 1 minute 50 seconds or less, in order to simulate required movements normally associated with the battery's installation within the tank.

(4) Execution

(a) The Marine will either stand erect or crouched-down with both feet flat-the-ground. Distance between the Marine's feet should be shoulder-width apart. The Marine may choose to stand erect or crouched with feet staggered in a variation of the basic-warrior stance. The mock-up will be at rest, at the ground-level, directly in front of and reasonably close to the Marine's toes.

(b) The preparatory command is "Ready" and the execute command is "Begin." On the command "Begin," the Marine will lift the mock-up from the ground, to a point wherein the bottom of the mock-up breaks the plane of the Marine's chin. Once the plane has been broken, the mock-up will be lowered in a fluid, controlled motion from chin-height to the deck, and neither thrown nor dropped. While lowering the mock-up to the deck, Marines should maintain a supportive curvature of the spine, and bend their knees. One repetition will be counted once the mock-up has been placed on the deck. Repeat for a total of three repetitions.

(c) Marines are encouraged to 'use-their-legs,' in order to generate the mock-up's upward momentum. However, no penalty will be assessed if Marines choose not to use their legs.

GRDORDMAINT T&R MANUAL

APPENDIX E

CLASS V(W) REQUIRED AMMUNITION

1. The Class V(W) listed in this appendix is required to train individual and collective T&R events.
2. The table below lists the events and DODICs required to train personnel within the Ground Ordnance Maintenance community:

EVENT CODE	DODIC	NOMENCLATURE	QTY	UOM
21XX-VOPS- 2003	A131	Cartridge, 7.62mm 4 Ball M80/1 Tracer M62 Linked	300	Per Marine