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Subj: MOTOR TRANSPORT (MOTOR T) TRAINING AND READINESS (T&R) MANUAL

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

Encl: (1) Motor T T&R Manual

1. Purpose. Per reference (a), this T&R Manual establishes training standards, regulations and policies regarding the training of Marines in the Motor Transport occupational field.

2. Cancellation. NAVMC 3500.39A

3. Scope

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

b. Per reference (b), commanders will conduct an internal assessment of the unit's ability to execute its mission and develop long-, mid-, and short-range training plans to sustain proficiency and correct deficiencies. Training plans will incorporate these events to standardize training and provide objective assessment of progress toward attaining combat readiness. Commanders will keep records at the unit and individual levels to record training achievements, identify training gaps and document objective assessments of readiness associated with training Marines. Commanders will use reference (c) to incorporate Nuclear, Biological, and Chemical Defense (NBCD) training into training plans and reference (d) to integrate Operational Risk Management (ORM). References (e) and (f) provide amplifying information for effective planning and management of training within the unit.

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

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

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 (MTESD) (C 465), 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.



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By direction

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MOTOR T T&R MANUAL

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MOTOR T T&R MANUAL

CHAPTER 1

OVERVIEW

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MOTOR T T&R MANUAL

CHAPTER 1

OVERVIEW

**1000. INTRODUCTION**

1. The T&R Program is the Corps' primary tool for planning, conducting and evaluating training and assessing training readiness. Subject matter experts (SMEs) from the operating forces developed core capability Mission Essential Task Lists (METLs) for ground communities derived from the Marine Corps Task List (MCTL). This T&R Manual is built around these METLs and other related Marine Corps Tasks (MCT). All events contained in the 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. The T&R Manual contains the individual and collective training requirements to prepare units to accomplish their combat mission. The T&R Manual is not intended to be an encyclopedia that contains every minute detail of how to accomplish training. Instead, it identifies the minimum standards that Marines must be able to perform in combat. The T&R Manual is a fundamental tool for commanders to build and maintain unit combat readiness. Using this tool, leaders can construct and execute an effective training plan that supports the unit's METL. More detailed information on the Marine Corps Ground T&R Program is found in reference (a).

3. The T&R Manual is designed for use by unit commanders to determine pre-deployment training requirements in preparation for training and for Formal Learning Centers and Training Detachments to create courses of instruction. This directive focuses on individual and collective tasks performed by operating forces (OPFOR) units and supervised by personnel in the performance of unit Mission Essential Tasks (METs).

**1001. UNIT TRAINING**

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

2. Commanders will ensure that all tactical training is focused on their combat mission. The T&R Manual is a tool to help develop the unit's training

plan. In most cases, unit training should focus on achieving unit proficiency in the core METL. However, commanders will adjust their training focus to support METLs associated with a major OPLAN/CONPLAN or named operation as designated by their higher commander and reported accordingly in the Defense Readiness Reporting System (DRRS). Tactical training will support the METL in use by the commander and be tailored to meet T&R standards. Commanders at all levels are responsible for effective combat training. The conduct of training in a professional manner consistent with Marine Corps standards cannot be over emphasized.

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

#### **1002. UNIT TRAINING MANAGEMENT**

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

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

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

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

#### **1003. SUSTAINMENT AND EVALUATION OF TRAINING**

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

2. Marines are expected to maintain proficiency in the training events for their MOS at the appropriate grade or billet to which assigned. Leaders are

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

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

**1004. ORGANIZATION.** The Motor T T&R Manual is comprised of 12 chapters. Chapter 2 lists the Motor T Core METs, which are used as part of the Defense Readiness Reporting System (DRRS). Chapter 3 contains collective events from the Team (3000-level), Section (4000-level), Platoon (5000-level), Company (6000-level) and Battalion/Squadron (7000-level). Chapters 4 through 12 contain individual events for the entire Motor T occupational field.

**1005. T&R EVENT CODING.** An event contained within a T&R Manual is an individual or collective training standard. This section explains each of the components of a 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.

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

- a. First 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.

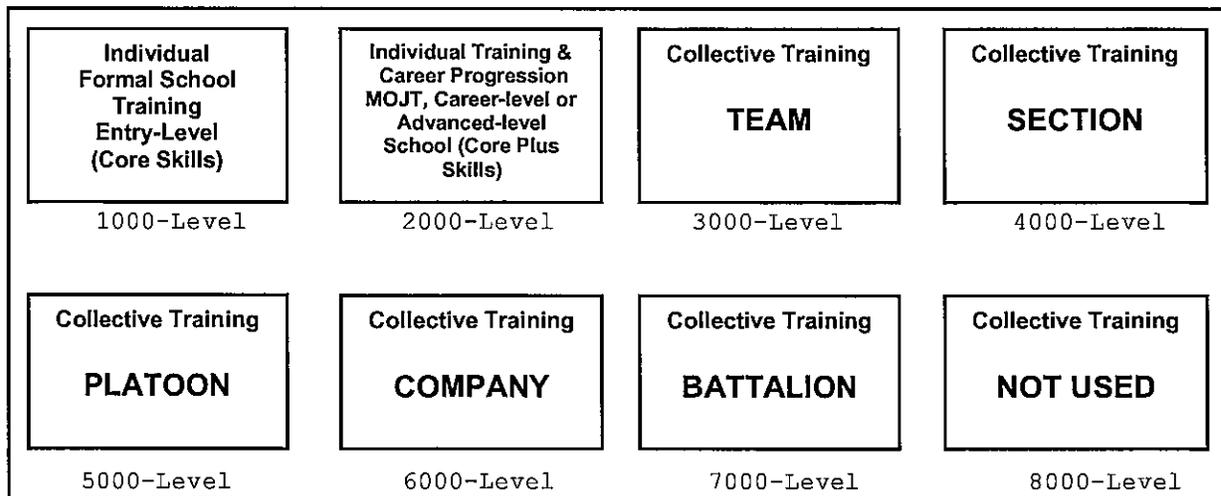


Figure. 1-1 T&R Event Levels

(1) 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 the 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, then the events should start 4431-ADMN-1001 and run through 1007. Next, the Bulk Fuel events, BUFL should start at 4431-BUFL-1001.

(2) Sequencing. A numerical code is assigned to each individual (1000-2000-level) or collective (3000-9000-level) training event. The first number identifies the size of the unit performing the event, as depicted in figure 1-1. The second number is available for T&R Manuals with collective events that support those in other manuals to identify the echelon of unit being supported by a particular collective event. If a collective event is supported by other events or is performed in general support without regard to echelon, then a zero "0" will be utilized as the second number. For example: 0231-TGT-3801 would refer to an event conducted by a four Marine Targeting Cell supporting a Regiment or Group, 0231-TGT-3001 would represent an event the Targeting Cell does in support of any sized unit. The event would not be labeled 0231-TGT-8001 because that would imply that a regiment sized targeting unit was performing some task. This is not possible, since no intelligence unit organizes in a unit larger than a Battalion. EXCEPTION: Events that relate to staff planning, to the 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 Forces (MAGTF) Command Element (CE) events. Marine Expeditionary Units (MEU) CE events will be numbered 90XX - 93XX. Marine Expeditionary Brigade (MEB) CE events will be numbered 94XX - 96XX. Marine Expeditionary Force (MEF) CE events will be numbered 97XX - 99XX.

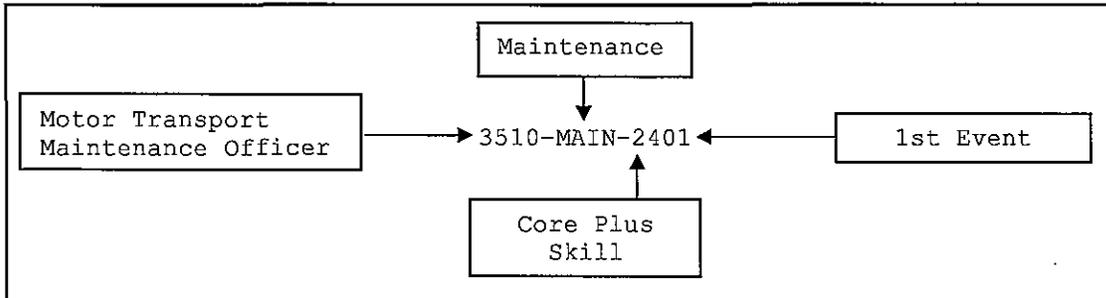


Figure 1-2: T&R Event Coding

#### 1006. EVALUATION-CODED (E-CODED) EVENTS

1. 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 Evaluation-Coded, or E-Coded events represent the irreducible minimum or the floor of readiness for a unit. E-Coded events are derived from the training measures of effectiveness for the Mission Essential Tasks for units that must report readiness in the Defense Readiness Reporting System (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.

#### 1007. COMBAT READINESS PERCENTAGE

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

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

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

completion of E-Coded Events is directly relevant to readiness assessment in DRRS.

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

#### 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. 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:  $325 \text{ (total MET CRP)} / 5 \text{ (total number of METS)} = 65\%$

#### 1009. T&R EVENT COMPOSITION

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 ideally, one object.
3. Evaluation 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 Evaluation-Coded, or E-Coded events represent the irreducible minimum or the floor of readiness for a unit. E-Coded events are derived from the training measures of effectiveness for the Mission Essential Tasks for units that must report readiness in the Defense Readiness Reporting System (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 occupation field drafting the T&R Manual, even if those events are not listed as MOEs in a MET.
5. Sustainment Interval. This is the period, expressed in number of months, between evaluation or retraining requirements. Competencies and capabilities acquired through the accomplishment of training events are to be refreshed at pre-determined intervals. It is essential that these intervals be adhered to in order to ensure Marines maintain proficiency.
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 its use is strongly encouraged for collective events. This field can be of great value guiding a formal learning center 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". 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 codes and event descriptions. The event components help the user determine what must be accomplished and to properly plan for the event. 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 operating forces.

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. After the publication of this order, all component events will identify the behaviors required in plain English but also by citing the precise event number the component event refers to, unless that component event only occurs as part of the collective event where it is listed. This provision will allow for specific events to be chained together in order to provide greater granularity for units and Marines executing the events, and clarity for those charged with evaluating unit performance.

12. 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.

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

14. Related ITEs. A list of all of the Individual Training Events (1000-2000-level events) that support the event.

15. Initial Training Setting. All individual events will designate the setting at which the skill is first taught, either at formal learning center (FLC), in the Operational Forces as MOJT, or via a distance learning product (DL).

16. 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.

17. Distance Learning Products. Distance learning products include: Individual Multimedia Instruction (IMI), Computer-Based Training (CBT), Marine Corps Institute (MCI), etc. This notation is included when, in the opinion of the TRMG in consultation with the MTSD representative, the event can be taught via one of these media vice attending a formal course of instruction or receiving MOJT.

18. 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 occupational field representatives will be careful not to "double count" ammunition that might be employed in the performance of individual and collective events that are chained.

19. Suitability of Simulation DL for sustainment. If the occupational field determines that an event can be trained to standard by use of simulation or a DL product, this will be noted in the description block. The specific simulation or DL product that is acceptable will be noted in the block as well.

a. Simulation should be used, whenever possible, in lieu of live training (particularly when resources to support the event are constrained); or at the Commander's discretion, used as a precursor to live training in order to help maximize and enhance the live training event.

b) This task can be supported by self-paced, computer based training, (i.e. MarineNet).

20. Miscellaneous. This field provides space for any additional information that will assist in the planning and execution of the event. Units and FLCS 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

<u>0321-PAT-4101</u> Conduct Team Planning			
<u>EVALUATION CODED:</u> YES		<u>SUPPORTED MET(S):</u> 1, 2, 3, 4, 5, 6, 7, 8, 9	
<u>DESCRIPTION:</u> The unit is conducting tactical operations. The unit has been issued a warning order to conduct reconnaissance patrols to collect information and to conduct normal security patrols. The patrol will be conducted on a 24-hour basis. This event may be trained to standard using the XYZ simulation program available at all MISTC locations.			
<u>CONDITION:</u> When given a Warning Order, Patrol Order or Frag Order.			
<u>STANDARD:</u> Prior to commencement of exercise or operation, so that subordinates have 2/3 of the total time before step-off for planning, to include all elements of the plan.			
<u>EVENT COMPONENTS:</u>			
1. Receive Warning Order or Patrol Order.			
2. Analyze for Mission using commander's guidance, METT-TSL, KOCOA.			
3. Analyze the mission and available information to identify specific tasks with respect to commander's guidance, METT-TSL and KOCOA.			
4. Create the plan.			
<u>RELATED ITES:</u>			
0321-PAT -1102	0321-PAT -1101	0321-COMM-1207	0321-FSPT-2301
0321-FSPT-2302	0321-FSPT-2303	0321-SURV-1403	
<u>REFERENCES:</u>			
1. FMFM 6-4 Marine Rifle Company			
2. MCWP 3-11.3 Scouting and Patrolling			
3. MCRP 2-15.1 DRAFT Ground Reconnaissance Handbook			

Figure 1-3: Example of a T&R Event

#### 1010. CBRN TRAINING

1. All personnel assigned to the operating force must be trained in chemical, biological, radiological, and nuclear defense (CBRN), 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.

#### 1011. NIGHT TRAINING

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

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

#### 1012. OPERATIONAL RISK MANAGEMENT (ORM)

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

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

#### 1013. APPLICATION OF SIMULATION

1. Suitability of Simulation / DL for sustainment. If the occupational field determines that an event can be trained to standard by use of simulation or a DL product, this will be noted in the description block. The specific simulation or DL product that is acceptable will be noted in the block as well.

a. Simulation should be used, whenever possible, in lieu of live training (particularly when resources to support the event are constrained); or at the Commander's discretion, used as a precursor to live training in order to help maximize and enhance the live training event.

b. This task can be supported by self-paced, computer based training, (i.e. MarineNet).

#### 1014. MARINE CORPS GROUND T&R PROGRAM

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

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

MOTOR T T&R MANUAL

CHAPTER 2

MISSION ESSENTIAL TASKS MATRIX

	<u>PARAGRAPH</u>	<u>PAGE</u>
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MOTOR T COMMUNITY MISSION ESSENTIAL TASKS (MET) MATRIX . . .	2001	2-2

MOTOR T T&R MANUAL

CHAPTER 2

MISSION ESSENTIAL TASKS MATRIX

2000. **MOTOR T CORE MISSION ESSENTIAL TASK LIST (METL).** The Motor T METL Table lists the Standardized Core Mission Essential Tasks (MET), derived from the Marine Corps Task List (MCTL), for the Motor T Community. This METL is used for readiness reporting in the Defense Readiness Reporting System (DRRS).

MOTOR T CORE MISSION ESSENTIAL TASKS

MARINE CORPS TASK LIST	MOTOR T COMMUNITY CORE METL
MCT 4.2	Conduct Maintenance Operations
MCT 4.2.2	Conduct Ground Equipment Maintenance
MCT 4.2.2.1	Conduct Inspection and Classification
MCT 4.2.2.2	Conduct Service, Adjustment, and Tuning
MCT 4.2.2.4	Conduct Repair
MCT 4.2.2.5	Conduct Modification
MCT 4.2.2.6	Conduct Rebuilding and Overhaul
MCT 4.2.2.8	Conduct Recovery and Evacuation Operations
MCT 4.3	Conduct Transportation Operations
MCT 4.3.3	Conduct Motor Transport Operations

2001. **MOTOR T COMMUNITY MISSION ESSENTIAL TASKS MATRIX.** The Motor T Mission Essential Task Matrix contains the METs identified in the Motor T METL. The Motor T MET matrix includes the designated MET number and supporting collective events.

**MET#/MISSION ESSENTIAL TASK**

<b>MET 1. CONDUCT MAINTENANCE OPERATIONS</b>	
MCMT-MAIN-3002	Maintain motor transport equipment
MCMT-OPER-5002	Establish a tactical motor pool
MCMT-OPER-6002	Establish a tactical motor pool
<b>MET 2. CONDUCT GROUND EQUIPMENT MAINTENANCE</b>	
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 3. CONDUCT INSPECTION AND CLASSIFICATION</b>	
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 4. CONDUCT SERVICE, ADJUSTMENT, AND TUNING</b>	
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 5. CONDUCT REPAIR</b>	
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 6. CONDUCT MODIFICATION</b>	
MCMT-MAIN-3002	Maintain motor transport equipment

<b>MET 7. CONDUCT REBUILDING AND OVERHAUL</b>	
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 8. CONDUCT RECOVERY AND EVACUATION OPERATIONS</b>	
MCMT-MAIN-3002	Maintain motor transport equipment
MCMT-MAIN-3003	Perform maintenance on recovered equipment
MCMT-OPER-3006	Conduct refueling operations
<b>MET 9. CONDUCT TRANSPORTATION OPERATIONS</b>	
MCMT-MAIN-3004	Conduct recovery operations
MCMT-OPER-3005	Conduct movement control
MCMT-OPER-4002	Conduct convoy operations
MCMT-OPER-5001	Conduct convoy operations
MCMT-OPER-6001	Conduct convoy operations
MCMT-OPER-7001	Conduct convoy operations
<b>MET 10. CONDUCT MOTOR TRANSPORT OPERATIONS</b>	
MCMT-LIC -3001	Provide a licensing program
MCMT-MAIN-3002	Maintain motor transport equipment
MCMT-OPER-3005	Conduct movement control
MCMT-OPER-3006	Conduct refueling operations
MCMT-LIC -4001	Provide a licensing program
MCMT-OPER-4002	Conduct convoy operations
MCMT-OPER-4003	Conduct movement control
MCMT-OPER-5001	Conduct convoy operations
MCMT-OPER-6001	Conduct convoy operations
MCMT-OPER-7001	Conduct convoy operations

MOTOR T T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

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7000-LEVEL EVENTS. . . . .	3003	3-3
6000-LEVEL EVENTS. . . . .	3004	3-4
5000-LEVEL EVENTS. . . . .	3005	3-5
4000-LEVEL EVENTS. . . . .	3006	3-6
3000-LEVEL EVENTS. . . . .	3007	3-8

MOTOR T T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

3000. **PURPOSE.** Chapter 3 contains collective training events for the Motor T 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 code:

<u>Code</u>	<u>Description</u>
MCMT	Marine Corps Motor Transport

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
MAIN	Maintenance
OPER.	Operator

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>
7000	Battalion Level
6000	Company Level
5000	Platoon Level
4000	Squad Level
3000	Crew/Section Level

3002. **INDEX OF COLLECTIVE EVENTS**

EVENT CODE	E-CODED	EVENT	PAGE
7000-LEVEL			
MCMT-OPER-7001	Y	Conduct convoy operations	3-3
6000-LEVEL			
MCMT-OPER-6001	Y	Conduct convoy operations	3-4
MCMT-OPER-6002		Establish a tactical motor pool	3-4
5000-LEVEL			
MCMT-OPER-5001	Y	Conduct convoy operations	3-5

MCMT-OPER-5002		Establish a tactical motor pool	3-6
<b>4000-LEVEL</b>			
MCMT-LIC-4001		Provide a licensing program	3-6
MCMT-OPER-4002	<b>Y</b>	Conduct convoy operations	3-7
MCMT-OPER-4003		Conduct movement control	3-8
<b>3000-LEVEL</b>			
MCMT-LIC-3001		Provide a licensing program	3-8
MCMT-MAIN-3002		Maintain motor transport equipment	3-8
MCMT-MAIN-3003		Conduct recovery operations	3-9
MCMT-OPER-3004		Conduct movement control	3-10
MCMT-OPER-3005		Conduct refueling operations	3-10

**3003. 7000-LEVEL EVENTS**

MCMT-OPER-7001: Conduct convoy operations

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

CONDITION: Given vehicles, personnel, required tools and equipment.

STANDARD: To arrive at a determined location with all required equipment and personnel.

EVENT COMPONENTS:

1. Analyze the operation order.
2. Draft a movement order.
3. Identify classifications for routes.
4. Conduct a convoy commander's brief.
5. Create a defense plan for tactical convoy.
6. Establish convoy communication.
7. Conduct a debrief.
8. Perform land navigation.
9. Prepare a convoy commander's after action report.

REFERENCES:

1. FM 21-305 Manual for Wheeled Vehicle Driver
2. FM 5-36 Route Reconnaissance and Classification
3. FM 55-30 Army Motor Transport Units and Operations
4. Local SOP Local Standard Operating Procedures
5. MCRP 3-40-3A Multi-Service Communications Procedures and Tactical Radio Procedures in Joint environment;
6. MCRP 4-11.3F Convoy Operations Handbook;
7. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for Tactical Convoy Operations;
8. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair;
9. MCWP 3-17.1 Combined Arms Gap-Crossing Operations;
10. MCWP 4-1 Logistics Operations;
11. MCWP 4-11 Tactical-Level Logistics;
12. MCWP 5-1 Marine Corps Planning Process (MCP);
13. MSTP PAM 4-0.1 Movement Control;

14. MCWP 4-11.4 Maintenance Operations
  15. Applicable Motor Transport Equipment Operator Manuals
- 

3004. 6000-LEVEL EVENTS

MCMT-OPER-6001: Conduct convoy operations

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

CONDITION: Given vehicles, personnel, required tools and equipment.

STANDARD: To arrive safely at a determined location with all required equipment and personnel.

EVENT COMPONENTS:

1. Analyze the operation order.
2. Draft a movement order.
3. Identify classifications for routes.
4. Conduct a convoy commander's brief.
5. Create a defense plan for tactical convoy.
6. Establish convoy communication.
7. Conduct a debrief.
8. Perform land navigation.
9. Prepare a convoy commander's after action report.

REFERENCES:

1. FM 21-305 Manual for Wheeled Vehicle Driver
  2. FM 5-36 Route Reconnaissance and Classification
  3. FM 55-30 Army Motor Transport Units and Operations
  4. Local SOP Local Standard Operating Procedures
  5. MCRP 3-40-3A Multi-Service Communications Procedures and Tactical Radio Procedures in Joint environment
  6. MCRP 4-11.3F Convoy Operations Handbook
  7. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for Tactical Convoy Operations
  8. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
  9. MCWP 3-17.1 Combined Arms Gap-Crossing Operations
  10. MCWP 4-1 Logistics Operations
  11. MCWP 4-11 Tactical-Level Logistics
  12. MCWP 5-1 Marine Corps Planning Process (MCP)
  13. MSTP PAM 4-0.1 Movement Control
  14. MCWP 4-11.4 Maintenance Operations
  15. Applicable Motor Transport Equipment Operator Manuals
- 

MCMT-OPER-6002: Establish a tactical motor pool

SUPPORTED MET(S): 1

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

CONDITION: Provided with the requirement, equipment and personnel.

STANDARD: Safely meeting operational requirement with no injury to personnel or damage to equipment.

EVENT COMPONENTS:

1. Conduct site recon.
2. Prepare a security plan.
3. Develop space requirements for equipment.
4. Develop space requirements for facilities.
5. Manage hazardous materials/waste.
6. Construct road network requirements.
7. Prepare a defense plan.
8. Create a fire prevention plan.
9. Observe environmental considerations.

REFERENCES:

1. FM 55-30 Army Motor Transport Units and Operations
  2. MCO P4790.2 MIMMS Field Procedures Manual
  3. TM 11240-14/2 Logistic Consideration for Motor Transport Convoy Operations
- 

3005. 5000-LEVEL EVENTS

MCMT-OPER-5001: Conduct convoy operations

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

CONDITION: Given vehicles, personnel, required tools and equipment.

STANDARD: Arrive at a determined location with all required equipment and personnel.

EVENT COMPONENTS:

1. Analyze the operation order.
2. Draft a movement order.
3. Identify classifications for routes.
4. Conduct a convoy commander's brief.
5. Create a defense plan for tactical convoy.
6. Establish convoy communication.
7. Conduct a debrief.
8. Perform land navigation.
9. Prepare a convoy commander's after action report.

REFERENCES:

1. FM 21-305 Manual for Wheeled Vehicle Driver
2. FM 5-36 Route Reconnaissance and Classification
3. FM 55-30 Army Motor Transport Units and Operations
4. Local SOP Local Standard Operating Procedures
5. MCRP 3-40-3A Multi-Service Communications Procedures and Tactical Radio Procedures in Joint environment
6. MCRP 4-11.3F Convoy Operations Handbook
7. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for

- Tactical Convoy Operations;
8. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
  9. MCWP 3-17.1 Combined Arms Gap-Crossing Operations
  10. MCWP 4-1 Logistics Operations
  11. MCWP 4-11 Tactical-Level Logistics
  12. MCWP 5-1 Marine Corps Planning Process (MCP)
  13. MSTP PAM 4-0.1 Movement Control
  14. MCWP 4-11.4 Maintenance Operations
  15. Applicable Motor Transport Equipment Operator Manuals
- 

MCMT-OPER-5002: Establish a tactical motor pool

SUPPORTED MET(S): 1

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

CONDITION: Provided with the requirement, equipment and personnel.

STANDARD: To safely meet operational requirement with no injury to personnel or damage to equipment.

EVENT COMPONENTS:

1. Conduct site recon.
2. Prepare a security plan.
3. Develop space requirements for equipment.
4. Develop space requirements for facilities.
5. Construct road network requirements.
6. Prepare a defense plan.
7. Create a fire prevention plan.
8. Observe environmental considerations.

REFERENCES:

1. FM 55-30 Army Motor Transport Units and Operations
  2. MCO P4790.2 MIMMS Field Procedures Manual
  3. TM 11240-14/2 Logistic Consideration for Motor Transport Convoy Operations
- 

3006. 4000-LEVEL EVENTS

MCMT-LIC-4001: Provide a licensing program

SUPPORTED MET(S): 10

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

CONDITION: Provided with the requirement, personnel and equipment.

STANDARD: To ensure all training, testing and administrative requirements are completed to operate equipment without injury to personnel or damage to equipment.

EVENT COMPONENTS:

1. Process applicants for licenses.

2. Conduct driver's testing.
3. Conduct individual driver's training.
4. Issue of U.S. Government Motor Vehicle Operator's Identification card (OF-346).
5. Maintain driver's history files.
6. Submit official correspondence.

**REFERENCES:**

1. Local SOP Local Standard Operating Procedures
  2. MCO 11240.66 Standard Licensing Procedures to Operate Military Motor Vehicle
  3. TM 11240-15/3 Motor Vehicle Licensing Official's Manual
- 

**MCMT-OPER-4002:** Conduct convoy operations

**SUPPORTED MET(S):** 9, 10

**EVALUATION-CODED:** YES

**SUSTAINMENT INTERVAL:** 12 months

**CONDITION:** Given vehicles, personnel, required tools and equipment.

**STANDARD:** Arrive at a determined location with all required equipment and personnel.

**EVENT COMPONENTS:**

1. Analyze the operation order.
2. Draft a movement order.
3. Identify classifications for routes.
4. Conduct a convoy commander's brief.
5. Create a defense plan for tactical convoy.
6. Establish convoy communication.
7. Conduct a debrief.
8. Perform land navigation.
9. Prepare a convoy commander's after action report.

**REFERENCES:**

1. FM 21-305 Manual for Wheeled Vehicle Driver
  2. FM 5-36 Route Reconnaissance and Classification
  3. FM 55-30 Army Motor Transport Units and Operations
  4. Local SOP Local Standard Operating Procedures
  5. MCRP 3-40-3A Multi-Service Communications Procedures and Tactical Radio Procedures in Joint environment
  6. MCRP 4-11.3F Convoy Operations Handbook
  7. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for Tactical Convoy Operations
  8. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
  9. MCWP 3-17.1 Combined Arms Gap-Crossing Operations
  10. MCWP 4-1 Logistics Operations
  11. MCWP 4-11 Tactical-Level Logistics
  12. MCWP 5-1 Marine Corps Planning Process (MCP)
  13. MSTP PAM 4-0.1 Movement Control
  14. MCWP 4-11.4 Maintenance Operations
  15. Applicable Motor Transport Equipment Operator Manuals
-

MCMT-OPER-4003: Conduct movement control

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

CONDITION: Given a requirement, personnel and equipment for vehicle movements, automated informational system.

STANDARD: To safely meet operational requirements with no injury to personnel or damage to equipment.

EVENT COMPONENTS:

1. Determine movement control factors.
2. Establish movement control planning process.
3. Process routing requirements.
4. Process scheduling requirements.

REFERENCES:

1. FM 5-36 Route Reconnaissance and Classification
- 

3007. 3000-LEVEL EVENTS

MCMT-LIC-3001: Provide a licensing program

SUPPORTED MET(S): 10

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

CONDITION: Provided with the requirement, personnel and equipment.

STANDARD: To ensure all training, testing and administrative requirements are completed to operate equipment without injury to personnel or damage to equipment.

EVENT COMPONENTS:

1. Process applicants for licenses.
2. Conduct driver's testing.
3. Conduct individual driver's training.
4. Issue of U.S. Government Motor Vehicle Operator's Identification card (OF-346).
5. Maintain driver's history files.
6. Submit official correspondence.

REFERENCES:

1. Local SOP Local Standard Operating Procedures
  2. MCO 11240.66 Standard Licensing Procedures to Operate Military Motor Vehicle
  3. TM 11240-15/3 Motor Vehicle Licensing Official's Manual
- 

MCMT-MAIN-3002: Maintain motor transport equipment

SUPPORTED MET(S): 1, 2, 3, 4, 5, 6, 8, 10

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

CONDITION: Provided with motor transport equipment and resources.

STANDARD: To an operational readiness status.

EVENT COMPONENTS:

1. Conduct first echelon maintenance.
2. Conduct second echelon maintenance.
3. Provide maintenance support teams.
4. Provide maintenance contact teams.
5. Establish external maintenance related programs.

REFERENCES:

1. AIETM Applicable Interactive Electronic Technical Manual
2. MCWP 4-11.4 Maintenance Operations
3. Applicable Motor Transport Equipment Operator Manuals
4. Applicable Motor Transport Equipment Stock Listing (SL)
5. Applicable Motor Transport Equipment Lubrication Order (LO)
6. Applicable Motor Transport Equipment Lubrication Instruction (LI)

SUPPORT REQUIREMENTS:

OTHER SUPPORT REQUIREMENTS: Contract Logistics Support

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MCMT-MAIN-3003: Conduct recovery operations

SUPPORTED MET(S): 8

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

CONDITION: Given appropriate equipment and the basic issue items.

STANDARD: By moving the disabled vehicle to a designated location without injury to personnel or further damage to equipment.

EVENT COMPONENTS:

1. Complete crane inspection checklist.
2. Operate tactical wrecker in unusual conditions.
3. Operate tactical wrecker on road.
4. Operate tactical wrecker off road.
5. Recover vehicle by lift tow.
6. Recover vehicle by flat tow.
7. Recover vehicle with winches.
8. Operate auxiliary tools on tactical wrecker.
9. Perform coupling procedures.
10. Inventory/PMCS basic issue items.
11. Recover vehicle by using block and tackle.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. TM 9-2320-260-10 Operator Manual for Trk 5 Ton, 6x6 M809 Series

4. TM 9-2320-272-10 Operator Manual for M939 Series Vehicle

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MCMT-OPER-3004: Conduct movement control

SUPPORTED MET(S): 9, 10

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

CONDITION: Given a requirement, personnel and equipment for vehicle movements, automated informational system.

STANDARD: To safely meet operational requirements with no injury to personnel or damage to equipment.

EVENT COMPONENTS:

1. Determine movement control factors
2. Establish movement control planning process
3. Process routing requirements
4. Process scheduling requirements

REFERENCES:

1. FM 5-36 Route Reconnaissance and Classification
- 

MCMT-OPER-3005: Conduct refueling operations

SUPPORTED MET(S): 8, 10

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

CONDITION: Provided with the requirement, equipment and personnel.

STANDARD: To safely meet operational requirements with no injury to personnel or damage to equipment.

EVENT COMPONENTS:

1. Operate semi-trailer refueler on road.
2. Transport hazardous cargo.
3. Operate semi-trailer refueler off road.
4. Re-circulate semi-trailer refueler.
5. Obtain fuel sample for testing.
6. Refuel ground equipment.
7. Troubleshoot semi-trailer refueler.
8. Perform emergency shutdown procedures.
9. Refuel aircraft.
10. Maintain fuel logbook.
11. Operate semi-trailer refueler under unusual conditions.
12. Operate semi-trailer refueler in administrative conditions.
13. Operate semi-trailer refueler under limited vision conditions.
14. Conduct de-fueling operations.
15. Perform semi-trailer coupling procedures.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals

2. AIETM Applicable Interactive Electronic Technical Manual
  3. FM 21-305 Manual for Wheeled Vehicle Driver
  4. FM 55-30 Army Motor Transport Units and Operations
  5. MCO P5100.8 Marine Corps Occupational Safety and Health Program Manual
  6. NAVAIR 00-80T-109 Aircraft Refueling NATOPS Manual
  7. NAVSEA OP 5 VOL 1 Ammunition & Explosives Ashore Safety Regulation (ESQD Information)
  8. NAVSEA OP 5 VOL 2 Ammunition & Explosives Ashore Safety Regulation
  9. TM 5-2330-356-14&P Semi-Trailer Tank, 5000
  10. TM 9-2320-260-10 Operator Manual for Trk 5 Ton, 6x6 M809 Series
  11. TM 9-2320-272-10 Operator Manual for M939 Series Vehicle
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MOTOR T T&R MANUAL

CHAPTER 4

MOS 3510 INDIVIDUAL EVENTS

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2000-LEVEL EVENTS . . . . .	4003	4-3

MOTOR T T&R MANUAL

CHAPTER 4

MOS 3510 INDIVIDUAL EVENTS

**4000. PURPOSE.** This chapter includes all individual events for the Motor Transport Maintenance Officer. Each event is composed of an individual event title, condition, standard, performance steps, support requirements, and references. Accomplishment and proficiency level required is determined by the event standard.

**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 code:

<u>Code</u>	<u>Description</u>
3510	Motor Transport 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>
ADMN	Administration
LIC	Licensing
MAIN	Maintenance
OPER	Operator

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 level:

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

**4002. INDEX OF INDIVIDUAL EVENTS BY LEVEL**

<u>EVENT CODE</u>	<u>EVENT</u>	<u>PAGE</u>
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3510-ADMN-2101	Direct the handling and site management of Hazardous Material (HAZMAT)/Hazardous Waste	4-3
3510-ADMN-2102	Maintain equipment accountability	4-4
3510-ADMN-2103	Manage the functional areas of maintenance management	4-4
3510-LIC-2301	Manage a licensing program	4-5
3510-MAIN-2401	Direct maintenance production	4-6

3510-MAIN-2402	Manage motor transport equipment participation in maintenance related programs	4-6
3510-MAIN-2403	Manage a load testing program	4-7
3510-MAIN-2404	Manage motor transport maintenance records	4-8
3510-MAIN-2405	Direct shop safety programs	4-9
3510-OPER-2501	Plan convoy operations	4-9
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3510-OPER-2506	Direct the preparation of maintenance support equipment for embarkation	4-13
3510-OPER-2507	Direct motor transport operations	4-13

**4003. 2000-LEVEL EVENTS**

**3510-ADMN-2101**: Direct the handling and site management of Hazardous Material (HAZMAT)/Hazardous Waste

**EVALUATION-CODED**: NO

**SUSTAINMENT INTERVAL**: 12 months

**MOS PERFORMING**: 3510

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

**INITIAL TRAINING SETTING**: FORMAL

**CONDITION**: Given references, equipment, personnel, hazardous material/waste and a requirement.

**STANDARD**: Safely using, storing and disposing of hazardous material/waste without risk to personnel, equipment or environment.

**PERFORMANCE STEPS**:

1. Identify hazardous material/waste.
2. Determine proper handling and storage procedures.
3. Manage proper clean up/collection procedures of hazardous material/waste.
4. Manage use of Personal Protective Equipment (PPE).
5. Manage the disposition of hazardous material/waste.

**REFERENCES**:

1. CFR 29 Code of Federal Regulations - Labor
2. CFR 40 Code of Federal Regulations - Hazardous Substances & Wastes
3. CFR 49 PARTS 100-185 Code of Federal Regulations - Transportation
4. DCAM 4145.11 Storage & Handling of Hazardous Material
5. MCO 10330.2D Storage and Handling of Liquefied and Gaseous Compressed Gasses and Their Full and Empty Cylinders (Jun 00)
6. MCO 4450.12A Storage and Handling of Hazardous Materials (Jan 99)
7. MCO P5090.2A Environmental Compliance and Protection Manual (Jul 98)
8. NAVMC DIR 5100.8 Marine Corps Occupational Safety and Health (OSH) Program Manual (May 06)

9. NAVSEA SWO20-AC-SAF-010 Transportation and Storage Data for Ammunition, Explosives and Related Hazardous Materials
10. NAVSEA SWO20-AF-ABK-010 Motor Vehicle Driver and Shipping Inspector's Manual for Ammunition, Explosives and Related Hazardous Materials
11. NAVSEA SWO20-AG-SAF-010 Navy Transportation Safety Handbook for Ammunition, Explosives and related Hazardous Materials
12. TM 9-6140-200-14 Lead Acid Batteries 4HN, 2H, 6TN

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** Local Installation Environmental Management Division (EMD) per each geographical area provides specific local/state regulations for handling/storing hazardous material/waste.

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**3510-ADMN-2102:** Maintain equipment accountability

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given equipment and equipment accountability records.

**STANDARD:** Ensuring 100% accountability and accurate documentation of equipment and supplies.

**PERFORMANCE STEPS:**

1. Receipt for all on hand equipment.
2. Submit required documentation.
3. Conduct inventories as required.
4. Manage sub-custody as required.

**REFERENCES:**

1. MCO P4400.150 Consumer Level Supply Policy Manual
  2. UM 4400-123 FMF SASSY Management Unit Procedures
  3. UM 4400-124 SASSY Using Unit Procedures
- 

**3510-ADMN-2103:** Manage the functional areas of maintenance management

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a motor transport shop, personnel, tools, supply requirements, and tactical vehicles.

**STANDARD:** IAW MCWP 4-11.4 Maintenance Operations chapter 2.

**PERFORMANCE STEPS:**

1. Manage maintenance administration.
2. Manage personnel and training.
3. Manage records and reports.
4. Manage publications control.
5. Manage operational availability.
6. Manage maintenance operations.
7. Manage supply support.
8. Manage maintenance related programs.
9. Establish/review internal maintenance management policy.
10. Monitor unit equipment readiness.
11. Identify organic/non-organic maintenance capabilities.
12. Monitor the maintenance automated information systems.
13. Direct maintenance management validation/reconciliation.
14. Implement a maintenance inspection program.

**REFERENCES:**

1. AEMI Applicable Equipment Modification Instruction
2. AETM Applicable Equipment Technical Manuals
3. AIETM Applicable Interactive Electronic Technical Manual
4. ASL-3 Applicable Stock Listing -3
5. MCO 4733.1\_ Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
6. MCO P4400.150\_ Consumer Level Supply Policy Manual
7. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
8. MCO P4790.2\_ MIMMS Field Procedures Manual
9. MCO P5215.17\_ Marine Corps Technical Publications System
10. MCO P5600.31\_ Marine Corps Publication and Printing Regulations
11. MCWP 4-11.4 Maintenance Operations
12. MCO 4400.16\_ Uniform Material Movement and Issue Priority System
13. SL 1-2 Index of Authorized Publication for Equipment Support
14. SL 1-3 Index of Authorized Publications in Stock
15. TI 4733-OD/1 Calibration Requirements for Marine Corps Test, Measurement, and Diagnostic Equipment Calibration and Maintenance Program
16. TI 4733-OD/10 Special Calibration of Torque Tools
17. TM 4700-15/1\_ Ground Equipment Record Procedures
18. UM 4400-124 SASSY Using Unit Procedures
19. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
20. UM-MCPDS 5605 Marine Corps Publications Distribution System
21. MCBUL 3000 Marine Corps Automated Readiness Evaluation System (MARES) Equipment
22. MCO P3500.72\_ Marine Corps Ground Training and Readiness (T&R) Program
23. Applicable T&R Manual; UM 4400-123 FMF SASSY Management Unit Procedures
24. DoD Directive 7730.65 Department of Defense Readiness Reporting System (DRRS)
25. GCSS-MC Procedural Notice 1-11
26. GCSS-MC Procedural Notice 2-11
27. GCSS-MC Procedural Notice 3-11

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**3510-LIC-2301:** Manage a licensing program

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

MOS PERFORMING: 3510

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Provided with the requirement, personnel, equipment and the references.

STANDARD: Ensuring all training, testing and administrative requirements are completed while operating equipment without injury to personnel or damage to equipment.

PERFORMANCE STEPS:

1. Supervise the licensing process.
2. Validate driver's testing.

REFERENCES:

1. MCO 11240.66\_ Standard Licensing Policy for Operators of Military Motor Vehicles
2. TM 11240-15/3\_ Motor Vehicle Licensing Official's Manual
3. DOD Dir 4500.36\_ Management, Acquisition and Use of Motor Vehicles and CFR 49 Code of Federal Regulations - Transportation

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3510-MAIN-2401: Direct maintenance production

EVALUATION-CODED: NO                      SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3510

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references and a requirement.

STANDARD: Meeting the commander's equipment readiness requirement.

PERFORMANCE STEPS:

1. Manage established maintenance procedures.
2. Manage maintenance resources.
3. Direct maintenance requirements during the equipment acceptance phase.
4. Direct maintenance requirements during the equipment induction phase.
5. Direct maintenance requirements during the equipment active maintenance phase.
6. Direct maintenance requirements during the maintenance closeout phase.
7. Direct the utilization of AIS.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. MCO P4790.2\_ MIMMS Field Procedures Manual
4. MCBUL 3000 Marine Corps Automated Readiness Evaluation System (MARES) Equipment
5. TM 4700-15/1\_ Ground Equipment Record Procedures

6. DoD Directive 7730.65 Department of Defense Readiness Reporting System (DRRS)
  7. GCSS-MC Procedural Notice 1-11
  8. GCSS-MC Procedural Notice 2-11
  9. GCSS-MC Procedural Notice 3-11
- 

**3510-MAIN-2402:** Manage motor transport equipment participation in maintenance related programs

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

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given references, equipment and personnel.

**STANDARD:** Meeting commander's equipment readiness requirement.

**PERFORMANCE STEPS:**

1. Process equipment for Enterprise Level Maintenance Program (ELMP).
2. Process equipment for Recoverable Items Program (WIR).
3. Process equipment for Corrosion Prevention and Control (CPAC) Program.
4. Process equipment for the Administrative Storage/Deadline Program.
5. Process equipment for the Service Life Extension Program (SLEP).
6. Process equipment for Principle End Item (PEI) rotation.
7. Process equipment for Original Equipment Manufacturer (OEM) retrofit and Engineer Change Proposals (ECPs).
8. Enforce selective interchange procedures for maintenance requirements.
9. Enforce cannibalization procedures for maintenance requirements.
10. Perform procedures for approval of an increase in echelon of maintenance (EOM).
11. Perform procedures for requesting overflow maintenance.

**REFERENCES:**

1. MCO 4400.194 Class VII Stock Rotation Program
  2. MCO 4790.18\_ Corrosion Prevention and Control (CPAC) Program
  3. MCO P4400.150\_ Consumer Level Supply Policy Manual
  4. MCO P4400.82\_ Regulated/Controlled Item Management Manual
  5. MCO P4790.2\_ MIMMS Field Procedures Manual
  6. TM 4795-12/1 Organizational Corrosion Prevention and Control Procedures
  7. TM 4795-34/2 Corrosion Prevention and Control, Rust proofing and Underbody Coating Procedures for Tactical Vehicles, Trailers, and Engineering Equipment
- 

**3510-MAIN-2403:** Manage a load testing program

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

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given references, personnel, equipment and a requirement.

**STANDARD:** To meet operational requirements without damage to equipment or injury to personnel.

**PERFORMANCE STEPS:**

1. Determine load test requirements.
2. Verify completion of load test records.
3. Direct the disposition of load test records.
4. Certify the Annual Condition Inspection (ACI) and/or load test of tactical ground load lifting equipment.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
4. TM 4700-15/1\_ Ground Equipment Record Procedures

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**3510-MAIN-2404:** Manage motor transport maintenance records

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a requirement, references, personnel and records.

**STANDARD:** To ensure accuracy and compliance.

**PERFORMANCE STEPS:**

1. Enforce procedures for completing forms and records.
2. Audit forms and records.
3. Manage the disposition of forms and records.

**REFERENCES:**

1. AEMI Applicable Equipment Modification Instruction
  2. AETM Applicable Equipment Technical Manuals
  3. AIETM Applicable Interactive Electronic Technical Manual
  4. ALO/I Applicable Lubrication Order/Instruction
  5. ATI Applicable Technical Instruction
  6. MCBUL 3000 Marine Corps Automated Readiness Evaluation System (MARES) Equipment
  7. MCO 3000.11\_ Marine Corps Automated Readiness Evaluation System (MARES)
  8. MCO 4400.16\_ Uniform Material Movement and Issue Priority System
  9. MCO P4400.150\_ Consumer Level Supply Policy Manual
  10. TM 4700-15/1\_ Ground Equipment Record Procedures
  11. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
-

3510-MAIN-2405: Direct shop safety programs

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3510

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Given references, personnel, equipment and facilities.

STANDARD: Preventing damage to equipment or injury to personnel.

PERFORMANCE STEPS:

1. Implement safety program.
2. Enforce safety requirements when using compressed air.
3. Enforce regulations for using load bearing equipment.
4. Enforce regulations to be adhered to in regard to the battery shop.
5. Enforce requirements for marking hazardous equipment.
6. Enforce proper use of equipment.
7. Enforce requirement for hearing conservation.
8. Identify regulations for using safety equipment.
9. Identify marking requirements of hazardous workspaces.
10. Enforce regulations for welding operations.

REFERENCES:

1. CFR 29 Code of Federal Regulations - Labor
  2. MCO 3500.27 Operational Risk Management (ORM)
  3. NAVMC DIR 5100.8 Marine Corps Occupational Safety and Health (OSH) Program Manual (May 06)
  4. TM 10209-10/1 Use and Care of Hand Tools and Measuring Tools
- 

3510-OPER-2501: Plan Convoy Operations

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3510

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a mission, references, vehicles, personnel, required tools and equipment.

STANDARD: Arriving at a determined location with all required equipment and personnel.

PERFORMANCE STEPS:

1. Analyze the appendix 4 to the annex d of an operation order.
2. Conduct problem framing.
3. Determine mission requirements.
4. Organize the convoy in march order.
5. Review classifications for routes.

6. Determine defense requirements of a tactical convoy.
7. Determine convoy communication requirements.
8. Conduct a convoy mission brief.
9. Direct the movement of the convoy.
10. Conduct a post mission debrief.
11. Prepare a post mission After Action Report (AAR).

**REFERENCES:**

1. FM 55-30 Army Motor Transport Units and Operations
2. MCRP 3-40-3A Multi-Service Communications Procedures and Tactical Radio Procedures in Joint environment
3. MCRP 4-11.3F Convoy Operations Handbook
4. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for Tactical Convoy Operations
5. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
6. MCWP 3-17.1 Combined Arms Gap-Crossing Operations
7. MCWP 4-1 Logistics Operations
8. MCWP 4-11 Tactical-Level Logistics
9. MCWP 5-1 Marine Corps Planning Process (MCP)
10. MSTP PAM 4-0.1 Movement Control
11. NAVSEA OP 5 VOL 1 Ammunition & Explosives Ashore Safety Regulation (ESQD Information)
12. NAVSEA OP 5 VOL 2 Ammunition & Explosives Ashore Safety Regulation
13. NAVSEA SWO20-AC-SAF-010 Transportation and Storage Data for Ammunition, Explosives and Related Hazardous Materials
14. NAVSEA SWO20-AF-ABK-010 Motor Vehicle Driver and Shipping Inspector's Manual for Ammunition, Explosives and Related Hazardous Materials
15. TM 09880C-0R Operator's Guide, DAGR Operator's Pocket Guide
16. TM 11240-OD\_ Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment

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**3510-OPER-2502:** Plan motor transport operations support

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

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an operation order and a requirement.

**STANDARD:** Outlining the requirements needed to support the mission.

**PERFORMANCE STEPS:**

1. Evaluate requirements.
2. Identify resources.
3. Determine geographical area operation requirements.
4. Determine required logistics support.
5. Develop an appendix 4 to annex D.
6. Develop an appendix 12 to annex D.
7. Draft a movement order.

**REFERENCES:**

1. MCRP 4-11.3F Convoy Operations Handbook
  2. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for Tactical Convoy Operations
  3. MCWP 4-1 Logistics Operations
  4. MCWP 4-11 Tactical-Level Logistics
  5. MCWP 4-11.3 Transportation Operations
  6. MCWP 4-11.4 Maintenance Operations
  7. MCWP 5-1 Marine Corps Planning Process (MCP)
  8. MSTP PAM 4-0.1 Movement Control
- 

**3510-OPER-2503:** Direct the establishment of a tactical motor pool

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

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with the requirement, references, equipment and personnel.

**STANDARD:** Safely meeting operational requirements with no injury to personnel or damage to equipment.

**PERFORMANCE STEPS:**

1. Conduct site reconnaissance.
2. Establish security.
3. Determine road network requirements.
4. Determine terrain requirements.
5. Determine facility requirements
6. Determine space requirements for equipment.
7. Determine emergency exits.
8. Establish a fire prevention plan.
9. Develop physical security requirements.
10. Employ a defense plan.
11. Determine environmental considerations.
12. Integrate motor pool area into other unit logistics elements to facilitate combat service support.

**REFERENCES:**

1. FM 55-30 Army Motor Transport Units and Operations
  2. MCO P4790.2 MIMMS Field Procedures Manual
  3. MCWP 4-1 Logistics Operations
  4. MCWP 4-11.3 Transportation Operations
  5. MCWP 4-11.4 Maintenance Operations
  6. MCWP 5-1 Marine Corps Planning Process (MCP)
- 

**3510-OPER-2504:** Employ vehicle recovery capabilities

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

MOS PERFORMING: 3510

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with a vehicle to be recovered, applicable references, personnel, and equipment.

STANDARD: Moving disabled vehicle to a designated location without injury to personnel or further damage to equipment.

PERFORMANCE STEPS:

1. Provide situational guidance.
2. Direct the eight step process.
3. Evaluate recovery efforts.
4. Report results, as required.
5. Coordinate external support.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. FM 5-125 Rigging Techniques, Procedures and Applications
  4. MCRP 4-11.3F Convoy Operations Handbook
  5. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for Tactical Convoy Operations
  6. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
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3510-OPER-2505: Direct motor transport support for Maritime Preposition Force (MPF) operations

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3510

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with equipment, references and operations plan.

STANDARD: Meeting operational requirements, without injury or damage to equipment.

PERFORMANCE STEPS:

1. Conduct MPF planning.
2. Establish marshaling requirements.
3. Perform movement requirements.
4. Implement arrival requirements.
5. Determine assembly requirements.

REFERENCES:

1. MCWP 3-32 Maritime Pre-positioning Force (MPF) Operations

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Formal training conducted at MPF Staff Planners Course.

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3510-OPER-2506: Direct the preparation of maintenance support equipment for embarkation

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3510

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

INITIAL TRAINING SETTING: MOJT

CONDITION: Provided with references, applicable materials and a requirement.

STANDARD: Accomplishing embarkation without damage to equipment or injury to personnel.

PERFORMANCE STEPS:

1. Determine the services that must be performed prior to embarkation.
2. Verify equipment marking requirements have been met.
3. Direct the preparation of maintenance support equipment for embarkation.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. DOD 4500.9-R Defense Transportation Regulation Parts I, II & III
  4. JP 3-02.2 Amphibious Embarkation
  5. MCO P4030.19\_ Preparing Hazardous Materials for Military Air Shipments
  6. MCO P4030.21 Packing of Material
  7. MCO P4030.31\_ Packing of Material, Preservation
  8. MCO P4030.36\_ Marine Corps Packaging Manual
  9. MCRP 4-11.3 G Unit Embarkation Handbooks
  10. NAVSEA SWO20-AF-HBK-010 Motor Vehicle Driver and Shipping Inspector's Manual for Ammunition, Explosives, and Related Hazardous Materials
  11. TM 11240-OD\_ Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment
  12. TM 11275-15/3D Principal Technical Characteristics of U.S. Marine Corps Engineer Equipment
- 

3510-OPER-2507: Direct motor transport operations

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3510

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

INITIAL TRAINING SETTING: FORMAL

**CONDITION:** Given a requirement, personnel and equipment.

**STANDARD:** Meeting Motor Transport support requirements.

**PERFORMANCE STEPS:**

1. Monitor the dispatching of equipment.
2. Supervise equipment readiness.
3. Identify equipment capabilities.
4. Manage forms/records.
5. Determine unit's operator requirements.
6. Supervise Maintenance Management programs.
7. Maintain equipment accountability.
8. Supervise maintenance in accordance with capabilities.
9. Supervise convoy operations.
10. Manage training of organic personnel.
11. Manage transportation of ammunition and hazardous materials.
12. Advise commander on motor transport related matters.
13. Conduct motor transport/internal inspections.
14. Monitor equipment status and availability.
15. Prepare a Standard Operating Procedure (SOP) for motor transport.
16. Supervise an environmental compliance program.
17. Coordinate non-organic support requirements.
18. Coordinate Reception, Staging, Onward-movement, and Integration (RSO&I).
19. Direct camouflaging of motor transport equipment.
20. Manage tactical movement.

**REFERENCES:**

1. MCO P4790.2\_ MIMMS Field Procedures Manual
  2. MCRP 4-11.3 G Unit Embarkation Handbooks
  3. MCWP 4-1 Logistics Operations
  4. MCWP 4-11 Tactical-Level Logistics
  5. MCWP 4-11.3 Transportation Operations
  6. MCWP 4-11.4 Maintenance Operations
  7. NAVSEA SWO20-AF-HBK-010 Motor Vehicle Driver and Shipping Inspector's Manual for Ammunition, Explosives, and Related Hazardous Materials
  8. TM 11240-OD\_ Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment
  9. TM 11275-15/3D Principal Technical Characteristics of U.S. Marine Corps Engineer Equipment
  10. TM 4700-15/1\_ Ground Equipment Record Procedures
  11. TM 5-1080-200-13&P Operators' Organizational and Direct Support Manual for Lightweight Camouflage Screen Systems
  12. TM 5-1080-250-12&P Ultra light Weight Camo Net System
  13. MCRP 4-11.3F Convoy Operations Handbook
  14. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for Tactical Convoy Operations
  15. MCRP 4-11.4A Recovery and Battle Damage Assessment and Repair
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CHAPTER 5

MOS 3521 INDIVIDUAL EVENTS

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MOTOR T T&R MANUAL

CHAPTER 5

MOS 3521 INDIVIDUAL EVENTS

**5000. PURPOSE.** This chapter includes all individual events for the Automotive Organizational Mechanic. Each event is composed of an individual event title, condition, standard, performance steps, support requirements, and references. Accomplishment and proficiency level required is determined by the event standard.

**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 code:

<u>Code</u>	<u>Description</u>
3521	Automotive Organizational Mechanic

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

MAIN	Maintenance
ADVM	Advance 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

**5002. INDEX OF INDIVIDUAL EVENTS BY LEVEL**

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**5003. 1000-LEVEL EVENTS**

**3521-MAIN-1001**: Conduct road test on motor transport tactical vehicle

**EVALUATION-CODED**: NO

**SUSTAINMENT INTERVAL**: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a vehicle that is pending repairs or has been repaired and required forms.

STANDARD: Validating corrective maintenance requirements.

PERFORMANCE STEPS:

1. Validate repairs.
2. Obtain a "shop use only" OF-346.
3. Conduct test.
4. Complete required MAIS records.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
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3521-MAIN-1002: Conduct tool inventory

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given the references, a tool kit and required forms.

STANDARD: Ensuring serviceability, accountability and cleanliness.

PERFORMANCE STEPS:

1. Identify the intended purpose of specific tools.
2. Inventory the contents of a tool kit.
3. Complete required forms/records.

REFERENCES:

1. MCO P4790.2\_MIMMS Field Procedures Manual
  2. TM 4700-15/1\_Ground Equipment Record Procedures
  3. ASL-3 Applicable Stock Listing
  4. TM 10209-10/1 Use of Hand Tools and Measuring Tools
  5. MCO P4790.2\_MIMMS Field Procedures Manual
  6. MCO P4400.150\_Consumer Level Supply Manual
  7. MCO 4733.1\_Marine Corps Test, Measurement and Diagnostic Equipment Calibration and Maintenance Program (CAMP)
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3521-MAIN-1003: Install automotive components with threaded fasteners

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a maintenance requirement, tools, equipment supplies and references.

STANDARD: To properly secure hardware according to specifications.

PERFORMANCE STEPS:

1. Identify the torque specifications of fasteners.
2. Restore a damaged fastener with internal threads.
3. Restore a damaged fastener with external threads.
4. Remove fasteners.
5. Replace fasteners
6. Torque threaded fasteners.

REFERENCES:

1. TM 10209-10/1 Use and Care of Hand Tools and Measuring Tools
  2. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1004: Connect automotive components with tubing and tube fittings

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a maintenance requirement, tools, equipment supplies and references.

STANDARD: To correctly install parts according to the required specifications.

PERFORMANCE STEPS:

1. Identify the point where the sealing occurs on each fitting.
2. Connect tubing to the tube fitting.

REFERENCES:

1. TM 10209-10/1 Use and Care of Hand Tools and Measuring Tools
  2. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1005: Perform maintenance on the electrical system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: The electrical system consists of: wiring and connections, lighting, battery, starting and charging systems.

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: Ensuring system operates properly

PERFORMANCE STEPS:

1. Identify components of the electrical system.
2. Inspect the electrical system for serviceability.
3. Diagnose the cause of a malfunctioning electrical system.
4. Repair unserviceable components of the electrical system.
5. Replace unserviceable components of the electrical system.
6. Test the electrical system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1006: Perform maintenance on the Central Tire Inflation System (CTIS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure system operates properly.

PERFORMANCE STEPS:

1. Inspect the CTIS for serviceability.
2. Diagnose the cause of a malfunctioning CTIS.
3. Repair unserviceable components of the CTIS.
4. Replace unserviceable components of the CTIS.
5. Test the CTIS.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1007: Perform maintenance on the air induction system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure vehicle operates properly.

PERFORMANCE STEPS:

1. Inspect the air induction system for serviceability.
2. Diagnose the cause of a malfunctioning air induction system.
3. Repair unserviceable components of the air induction system.
4. Replace unserviceable components of the air induction system.
5. Test the air induction system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1008: Perform maintenance on the exhaust system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure vehicle operates properly.

PERFORMANCE STEPS:

1. Inspect the exhaust system for serviceability.
2. Diagnose the cause of a malfunctioning exhaust system.
3. Repair unserviceable components of the exhaust system.
4. Replace unserviceable components of the exhaust system.
5. Test the exhaust system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1009: Perform maintenance on the cooling system

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure vehicle operates properly.

PERFORMANCE STEPS:

1. Inspect the cooling system for serviceability.
2. Diagnose the cause of a malfunctioning cooling system.
3. Repair unserviceable components of the cooling system.
4. Replace unserviceable components of the cooling system.
5. Test the cooling system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1010: Perform maintenance on the fuel system

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure vehicle operates properly.

PERFORMANCE STEPS:

1. Inspect the fuel system for serviceability.
2. Diagnose the cause of a malfunctioning fuel system.
3. Repair unserviceable components of the fuel system.
4. Replace unserviceable components of the fuel system.
5. Test the fuel system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1011: Perform maintenance on the power plant/train

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

DESCRIPTION: The power plant/train consists of: engine, transmission, transfer, propeller shafts, and axles.

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure vehicle operates properly.

PERFORMANCE STEPS:

1. Inspect the power plant/train system for serviceability.
2. Diagnose the cause of a malfunctioning component.
3. Repair unserviceable components of the power plant/train system.
4. Replace unserviceable components of the power plant/train system.
5. Test the power plant/train system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1012: Perform maintenance on the brake system

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure vehicle operates properly.

PERFORMANCE STEPS:

1. Inspect the brake system for serviceability.
2. Diagnose the cause of a malfunctioning brake system.
3. Repair unserviceable components of the brake system.
4. Replace unserviceable components of the brake system.
5. Test the brake system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual

3. TM 9-8000 Principles of Automotive Vehicles

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3521-MAIN-1013: Perform maintenance on the compressed air system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure vehicle operates properly.

PERFORMANCE STEPS:

1. Inspect the compressed air system for serviceability.
2. Diagnose the cause of a malfunctioning compressed air system.
3. Repair unserviceable components of the compressed air system.
4. Replace unserviceable components of the compressed air system.
5. Test the compressed air system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 9-8000 Principles of Automotive Vehicles
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3521-MAIN-1014: Perform maintenance on the steering system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure vehicle operates properly.

PERFORMANCE STEPS:

1. Inspect the steering system for serviceability.
2. Diagnose the cause of a malfunctioning steering system.
3. Repair unserviceable components of the steering system.
4. Replace unserviceable components of the steering system.
5. Test the steering system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals

2. AIETM Applicable Interactive Electronic Technical Manual
3. TM 9-8000 Principles of Automotive Vehicles

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3521-MAIN-1015: Perform maintenance on the suspension system

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure vehicle operates properly.

PERFORMANCE STEPS:

1. Inspect the suspension system for serviceability.
2. Diagnose the cause of a malfunctioning suspension system.
3. Repair unserviceable components of the suspension system.
4. Replace unserviceable components of the suspension system.
5. Test the suspension system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. TM 9-8000 Principles of Automotive Vehicles

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3521-MAIN-1016: Perform maintenance on the hydraulic system

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

STANDARD: To ensure the vehicle operates properly.

PERFORMANCE STEPS:

1. Identify components of the hydraulic system.
2. Inspect the hydraulic system for serviceability.
3. Diagnose the cause of a malfunctioning hydraulic system.
4. Repair unserviceable components of the hydraulic system.
5. Replace unserviceable components of the hydraulic system.
6. Test the hydraulic system.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. TM 9-8000 Principles of Automotive Vehicles

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**3521-MAIN-1017:** Perform maintenance on the Heating Ventilation/Air Conditioning (HVAC) system

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

**STANDARD:** To ensure the vehicle operates properly.

**PERFORMANCE STEPS:**

1. Inspect the Heating Ventilation/Air Conditioning (HVAC) system for serviceably.
2. Diagnose the cause of a malfunctioning Heating Ventilation/Air Conditioning (HVAC) system.
3. Perform air conditioning system recovery procedures.
4. Vacuum the air conditioning system.
5. Repair unserviceable components of the Heating Ventilation/Air Conditioning (HVAC) system.
6. Replace unserviceable components of the Heating Ventilation/Air Conditioning (HVAC) system.
7. Recharge the air conditioning system.
8. Test the HVAC system.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. TM 9-8000 Principles of Automotive Vehicles

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** FLC provides certification through EPA 609.

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**3521-MAIN-1018:** Perform maintenance on the engine cold start system

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

**STANDARD:** To ensure equipment is operational.

**PERFORMANCE STEPS:**

1. Identify components of the cold start system.
2. Inspect the cold start system for serviceability.
3. Diagnose the cause of a malfunctioning cold start system.
4. Repair unserviceable components of the cold start system.
5. Replace unserviceable components of the cold start system.
6. Test the cold start system.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. TM 9-8000 Principles of Automotive Vehicles

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**3521-MAIN-1019:** Process maintenance functions within the current Automated Information System (AIS)

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given references, a requirement, and access to the current Automated Information System (AIS).

**STANDARD:** Process maintenance functions within the current AIS to maintain equipment.

**PERFORMANCE STEPS:**

1. Create a service request (SR).
2. Navigate the universal work queue (UWQ).
3. Create a parts requirement.
4. Know what a locator is.
5. Debrief an assigned task.

**REFERENCES:**

1. GCSS-MC Training Guides
2. GCSS-MC PROCEDURAL NOTICE 3-11: PREP, FILING, AND DISPO OF A GCSS-MC PARTS REQ TASK IN PLACE OF A MIMMS EROSL

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**5004. 2000-LEVEL EVENTS**

**3521-ADVM-2001:** Determine maintenance resources

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

MOS PERFORMING: 3521, 3529

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a requirement, a table of organization and table of equipment (TO&E), and the references.

STANDARD: To meet mission requirements and sustain unit readiness.

PERFORMANCE STEPS:

1. Determine personnel requirements.
2. Determine tools and equipment requirements.
3. Determine maintenance capabilities.

REFERENCES:

1. MCO 5311.1 Total Force Structure Process (TFSP)
  2. MCO P1200.7 Military Occupational Specialties Manual
  3. MCO P4400.150 Consumer Level Supply Policy Manual
  4. MCO P4790.2 MIMMS Field Procedures Manual
  5. MCTFSPRIUM Marine Corps Total Force System Personnel Reporting Instructions Users Manual
  6. TM 11240-OD Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment
  7. AETM Applicable Equipment Technical Manuals
  8. AIETM Applicable Interactive Electronic Technical Manual
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3521-ADVM-2002: Manage equipment through maintenance production

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521, 3529

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given references, a facility, requirement, personnel and equipment.

STANDARD: To maintain unit readiness.

PERFORMANCE STEPS:

1. Determine tasks to be performed during the acceptance phase.
2. Determine tasks to be performed during the induction phase.
3. Determine tasks to be performed during the maintenance phase.
4. Determine tasks to be performed during the closeout phase.
5. Determine preventive maintenance requirements.
6. Determine corrective maintenance requirements.
7. Prepare MAIS input transactions.
8. Audit MAIS input transactions.
9. Determine the use of MAIS output reports.
10. Audit output reports.

11. Manage calibrations program.
12. Manage modifications program.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. MCO P4790.2\_ MIMMS Field Procedures Manual
4. TM 4700-15/1\_ Ground Equipment Record Procedures
5. MCO 4400.16\_ Uniform Material Movement and Issue Priority System
6. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
7. MCO 3000.11\_ Marine Corps Automated Readiness Evaluation System (MARES)
8. MCBUL 3000 Marine Corps Automated Readiness Evaluation System (MARES) Equipment
9. TI 4733-OD/1 Calibration Requirements for Marine Corps Test, Measurement, and Diagnostic Equipment Calibration and Maintenance Program
10. TI 4733-OD/10 Special Calibration of Torque Tools
11. MCO 4733.1\_ Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP)
12. AEMI Applicable Equipment Modification Instruction
13. GCSS-MC Procedural Notice 1-11
14. GCSS-MC Procedural Notice 2-11
15. GCSS-MC Procedural Notice 3-11

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**3521-ADVM-2003:** Utilize Precision Tools

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

**MOS PERFORMING:** 3521, 3529

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given references, required tool, and equipment perform precision measurements.

**STANDARD:** Properly attain precision measurement on sub-assembly and components.

**PERFORMANCE STEPS:**

1. Inspect precision tool for serviceability
2. Identify the intended purpose of specific tools
3. Identify required tool for measurement.
4. Determine required measurement.
5. Conduct measurement
6. Record measurement
7. Determine if component is within specifications
8. Perform storage and maintenance procedures

**REFERENCES:**

1. AEOM Applicable Equipment Owners Manuals
2. TM 10209-10/1 Use and Care of Hand Tools and Measuring Tools
3. MCO 4733.1\_ Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program

3521-ADVM-2004: Handle hazardous material

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given references, a requirement, equipment and hazardous materials.

STANDARD: Minimizing risk to personnel, equipment or environment.

PERFORMANCE STEPS:

1. Identify hazardous material.
2. Conduct the disposal of hazardous materials.

REFERENCES:

1. CFR 29 Code of Federal Regulations - Labor
2. CFR 40 Code of Federal Regulations - Hazardous Substances & Wastes
3. CFR 49 PARTS 100-185 Code of Federal Regulations - Transportation
4. DCAM 4145.11 Storage & Handling of Hazardous Material
5. MCO 4450.12A Storage and Handling of Hazardous Materials (Jan 99)
6. MCO P5090.2A Environmental Compliance and Protection Manual (Jul 98)
7. NAVMC DIR 5100.8 Marine Corps Occupational Safety and Health (OSH) Program Manual (May 06)
8. NAVSEA SWO20-AC-SAF-010 Transportation and Storage Data for Ammunition, Explosives and Related Hazardous Materials
9. NAVSEA SWO20-AF-ABK-010 Motor Vehicle Driver and Shipping Inspector's Manual for Ammunition, Explosives and Related Hazardous Materials
10. NAVSEA SWO20-AG-SAF-010 Navy Transportation Safety Handbook for Ammunition, Explosives and related Hazardous Materials
11. TM 9-6140-200-14 Lead Acid Batteries 4HN, 2H, 6TN

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Each Installation's Environmental Management Division (EMD) provides specific local/state regulations for handling/storing hazardous material/waste.

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3521-ADVM-2005: Supervise motor transport maintenance functions

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521, 3529

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with a requirement, personnel, records and the references.

**STANDARD:** To ensure accuracy and compliance.

**PERFORMANCE STEPS:**

1. Manage maintenance administration.
2. Manage personnel and training.
3. Manage records and reports.
4. Manage publications control.
5. Manage equipment availability.
6. Manage preventative maintenance checks, services and corrective maintenance.
7. Manage supply support.
8. Manage maintenance related programs.

**REFERENCES:**

1. AEMI Applicable Equipment Modification Instruction
2. AETM Applicable Equipment Technical Manuals
3. AIETM Applicable Interactive Electronic Technical Manual
4. ALO/I Applicable Lubrication Order/Instruction
5. ATI Applicable Technical Instruction
6. MCBUL 3000 Marine Corps Automated Readiness Evaluation System (MARES) Equipment
7. MCO 3000.11\_ Marine Corps Automated Readiness Evaluation System (MARES)
8. MCO 4400.16\_ Uniform Material Movement and Issue Priority System
9. MCO 4855.10\_ Product Quality Deficiency Report (PQDR)
10. MCO P4400.150\_ Consumer Level Supply Policy Manual
11. MCO P4790.2\_ MIMMS Field Procedures Manual
12. TM 4700-15/1\_ Ground Equipment Record Procedures
13. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
14. MCO P5215.17\_ Marine Corps Technical Publications System
15. MCO P5600.31\_ Marine Corps Publication and Printing Regulations
16. UM-MCPDS 5605 Marine Corps Publications Distribution System
17. UM-PLMS Marine Corps Publications Library Management System (PLMS) Users Manual

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**3521-ADVM-2006:** Perform maintenance on the Load Handling System (LHS) on motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521, 3529

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a tactical wheeled vehicle with LHS, tools, test equipment, shop supplies, repair parts and references.

**STANDARD:** To ensure the vehicle operates properly.

**PERFORMANCE STEPS:**

1. Identify components of the Load Handling System (LHS).
2. Inspect the Load Handling System (LHS) for serviceability.
3. Diagnose the cause of a malfunctioning Load Handling System (LHS).
4. Repair unserviceable components of the Load Handling System (LHS).

5. Replace unserviceable components of the Load Handling System (LHS).
6. Test the Load Handling System (LHS).

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
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**3521-ADVM-2007:** Perform Preventive Maintenance Checks and Services (PMCS)

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521

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

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

**STANDARD:** To maintain operational readiness and identify corrective maintenance actions.

**PERFORMANCE STEPS:**

1. Perform annual PMCS.
2. Perform bi-annual PMCS.

**REFERENCES:**

1. AEMI Applicable Equipment Modification Instruction
  2. AETM Applicable Equipment Technical Manuals
  3. AIETM Applicable Interactive Electronic Technical Manual
  4. ALO/I Applicable Lubrication Order/Instruction
  5. FM 21-305 Manual for Wheeled Vehicle Driver
  6. FM 55-30 Army Motor Transport Units and Operations
  7. MCO P4790.2\_ MIMMS Field Procedures Manual
  8. MCWP 4-11.4 Maintenance Operations
  9. TM 4700-15/1\_ Ground Equipment Record Procedures
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**3521-ADVM-2008:** Perform a Limited Technical Inspection (LTI)

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521

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

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Given a motor transport tactical vehicle, applicable forms, records and references.

**STANDARD:** To identify and correct any deficiencies or malfunctions.

**PERFORMANCE STEPS:**

1. Inspect the exterior of the vehicle.
2. Inspect the vehicle underbody.
3. Inspect the engine compartment.
4. Inspect the interior of the vehicle.
5. Inspect tools and associated equipment.
6. Complete the NAVMC 10284.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. MCO P4790.2 MIMMS Field Procedures Manual.
  4. TM 4700-15/1 Ground Equipment Record Procedures
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**3521-ADVM-2009:** Perform maintenance on the chassis system

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

**MOS PERFORMING:** 3521

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

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and references.

**STANDARD:** To ensure vehicle operates properly.

**PERFORMANCE STEPS:**

1. Inspect the chassis system for serviceability.
2. Repair unserviceable components of the chassis system.
3. Replace unserviceable components of the chassis system.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
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**3521-ADVM-2010:** Repair engines commonly found in tactical equipment

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

**MOS PERFORMING:** 3521, 3529

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with a tactical wheeled vehicle, faulty engine, required tools, replacement parts, shop supplies, cleaning materials and references.

**STANDARD:** To restore equipment to maintain unit readiness.

**PERFORMANCE STEPS:**

1. Disassemble engine.
2. Inspect subassemblies and components for serviceability.
3. Repair/replace unserviceable subassemblies and components.
4. Assemble engine.
5. Perform final engine run-in and adjustments.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
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**3521-ADVM-2011:** Repair transmissions commonly found in motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521, 3529

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with a tactical wheeled vehicle, faulty transmission, required tools, replacement parts, shop supplies, cleaning materials and references.

**STANDARD:** To restore equipment to maintain unit readiness.

**PERFORMANCE STEPS:**

1. Disassemble transmission.
2. Inspect transmission components for serviceability.
3. Replace unserviceable components.
4. Assemble transmission.
5. Test transmission.
6. Perform any necessary adjustments.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3521-ADVM-2012:** Perform maintenance on the fire suppression system

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521, 3529

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a tactical wheeled vehicle, tools, test equipment, shop supplies, repair parts and reference(s).

**STANDARD:** To ensure the vehicle operates properly.

**PERFORMANCE STEPS:**

1. Identify components of the fire suppression system.
2. Inspect the fire suppression system for serviceability.
3. Diagnose the cause of a malfunctioning fire suppression system.
4. Repair unserviceable components of the fire suppression system.
5. Replace unserviceable components of the fire suppression system.
6. Inspect the fire suppression system for leaks.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. Applicable Commercial Off The Shelf (COTS) Manuals
- 

**3521-ADVM-2013:** Repair geared hubs on motor transport equipment

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

**MOS PERFORMING:** 3521, 3529

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with faulty geared hubs, required tools, replacement parts, shop supplies, cleaning materials and references.

**STANDARD:** To restore equipment to maintain unit readiness.

**PERFORMANCE STEPS:**

1. Disassemble geared hubs.
2. Inspect geared hub components for serviceability.
3. Replace unserviceable components.
4. Assemble geared hubs.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3521-ADVM-2014:** Repair axle/differential assemblies on motor transport equipment

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

**MOS PERFORMING:** 3521, 3529

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with faulty axle/differential assemblies, required tools, replacement parts, shop supplies, cleaning materials and references.

STANDARD: To restore equipment to maintain unit readiness.

PERFORMANCE STEPS:

1. Disassemble axle/differential.
2. Inspect axle/differential components for serviceability.
3. Replace unserviceable components.
4. Assemble axle/differential.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3521-ADVM-2015: Repair winches on motor transport equipment

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521, 3529

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with faulty winches, required tools, replacement parts, shop supplies, cleaning materials and references.

STANDARD: To restore equipment to maintain unit readiness.

PERFORMANCE STEPS:

1. Disassemble winch.
2. Inspect winch components for serviceability.
3. Replace unserviceable components.
4. Assemble winch.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3521-ADVM-2016: Repair hydraulic system components on motor transport equipment

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3521, 3529

GRADES: CPL, SGT, SSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with faulty hydraulic system components, required tools, replacement parts, shop supplies, cleaning materials and references.

STANDARD: To restore equipment to maintain unit readiness.

**PERFORMANCE STEPS:**

1. Disassemble hydraulic system components.
2. Inspect disassembled hydraulic system components for serviceability.
3. Repair or replace unserviceable components.
4. Assemble hydraulic system components.
5. Perform necessary adjustments.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3521-ADVM-2017:** Repair steering system components on motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521, 3529

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with faulty steering system components, required tools, replacement parts, shop supplies, cleaning material and references.

**STANDARD:** To restore equipment to maintain unit readiness.

**PERFORMANCE STEPS:**

1. Disassemble steering system components.
2. Inspect disassembled steering system components for serviceability.
3. Replace unserviceable components.
4. Assemble steering system components.
5. Perform necessary adjustments.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3521-ADVM-2018:** Repair transfers commonly found in motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521, 3529

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with faulty transfers, required tools, replacement parts, shop supplies, cleaning materials and references.

**STANDARD:** To restore equipment to maintain unit readiness.

**PERFORMANCE STEPS:**

1. Disassemble transfer.
2. Inspect transfer components for serviceability.
3. Replace unserviceable components.
4. Assemble transfer.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
-

MOTOR T T&R MANUAL

CHAPTER 6

MOS 3524 INDIVIDUAL EVENTS

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MOTOR T T&R MANUAL

CHAPTER 6

MOS 3524 INDIVIDUAL EVENTS

**6000. PURPOSE.** This chapter includes all individual events for the Fuel and Electrical Systems Mechanic. Each event is composed of an individual event title, condition, standard, performance steps, support requirements, and references. Accomplishment and proficiency level required is determined by the event standard.

**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 code:

<u>Code</u>	<u>Description</u>
3524	Fuel and Electrical Systems Mechanic

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>
2000	Core Plus Skills

**6002. INDEX OF INDIVIDUAL EVENTS BY LEVEL**

EVENT CODE	EVENT	PAGE
<b>2000-LEVEL</b>		
3524-MAIN-2001	Perform maintenance on fuel system test equipment	6-3
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3524-MAIN-2009	Repair personnel heater	6-7
3524-MAIN-2010	Repair a nozzle	6-7
3524-MAIN-2011	Repair an injector	6-8
3524-MAIN-2012	Repair a fuel pump	6-8
3524-MAIN-2013	Repair a fuel injection pump	6-9

6003. 2000-LEVEL EVENTS

3524-MAIN-2001: Perform maintenance on fuel system test equipment

EVALUATION-CODED: NO                      SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3524

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Provided with fuel system component test and repair equipment, required tools, replacement parts, shop supplies, cleaning materials and references.

STANDARD: To maintain serviceable and operational equipment.

PERFORMANCE STEPS:

1. Perform daily services.
2. Perform monthly services.
3. Perform three month services.
4. Perform six month services.
5. Perform twelve month services.
6. Troubleshoot electrical system.
7. Troubleshoot pneumatic system.
8. Troubleshoot hydraulic system.
9. Replace defective components.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. AVM2-PC Operating, Servicing, and Spares Manual Fuel Pumps/Injection Pumps
4. Bacharach CD3 Operator and Service Manual Injectors
5. H.A. 290 Inj Test St 290 Cummins Injector Test Stand Operating and Servicing Manual
6. H.F. 491 TEST UNIT Hartridge H.F. 491 Mobile Test unit Operating, Servicing Manual

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3524-MAIN-2002: Perform maintenance on Alternator/Generator/Regulator and Starter test stand (AGRS)

EVALUATION-CODED: NO                      SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3524

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Provided with an alternator, generator, AGRS test stand, required tools, replacement parts, shop supplies, cleaning materials and references.

STANDARD: To maintain serviceable and operational equipment.

PERFORMANCE STEPS:

1. Perform before operation checks and services.
2. Perform during operation checks and services.
3. Perform after operation checks and services.
4. Troubleshoot electrical system.
5. Replace defective components.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AGRS OPS AND MAINT OPERATIONAL AND MAINTENANCE MANUAL FOR AGRS TEST STAND, MODEL 93-1064
  3. AIETM Applicable Interactive Electronic Technical Manual
- 

3524-MAIN-2003: Repair a turbocharger

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3524

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with a faulty turbocharger, required tools, replacement parts, shop supplies, cleaning materials and references.

STANDARD: To restore component to an operational level.

PERFORMANCE STEPS:

1. Disassemble the turbocharger.
2. Inspect the components for serviceability.
3. Replace any unserviceable components.
4. Assemble the turbocharger.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3524-MAIN-2004: Repair a blower

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3524

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with a faulty blower, required tools, replacement parts, shop supplies, cleaning materials, and references.

STANDARD: To restore component to an operational level.

PERFORMANCE STEPS:

1. Disassemble the blower.
2. Inspect the blower components for serviceability.
3. Replace any unserviceable components.
4. Assemble blower.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3524-MAIN-2005: Repair a starter

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3524

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with a faulty starter, required tools, test equipment, replacement parts, shop supplies, cleaning materials and references.

STANDARD: To restore component to an operational level.

PERFORMANCE STEPS:

1. Disassemble a starter.
2. Inspect the starter components for serviceability.
3. Replace any unserviceable components.
4. Assemble the starter.
5. Test the starter.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3524-MAIN-2006: Repair a generator

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3524

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

**CONDITION:** Provided with a faulty generator, required tools, test equipment, replacement parts, shop supplies, cleaning materials and reference.

**STANDARD:** To restore component to an operational level.

**PERFORMANCE STEPS:**

1. Disassemble a generator.
2. Inspect the generator components for serviceability.
3. Replace any unserviceable components.
4. Assemble the generator.
5. Test the generator.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 9-2920-242-34&P JACK & HEINTZ 300 AMP GENERATOR
- 

**3524-MAIN-2007:** Conduct test on voltage regulator

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3524

**GRADES:** LCPL, CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with a faulty regulator, required tools, test equipment, shop supplies, cleaning materials, and references.

**STANDARD:** To ensure component functions and operates properly.

**PERFORMANCE STEPS:**

1. Connect test equipment.
2. Test regulator.
3. Disconnect test equipment.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AGRS OPS AND MAINT OPERATIONAL AND MAINTENANCE MANUAL FOR AGRS TEST STAND, MODEL 93-1064
  3. AIETM Applicable Interactive Electronic Technical Manual
- 

**3524-MAIN-2008:** Repair an alternator

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3524

**GRADES:** LCPL, CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with a faulty alternator, test equipment, cleaning materials and applicable references.

**STANDARD:** To restore component to an operational level.

**PERFORMANCE STEPS:**

1. Disassemble an alternator.
2. Inspect the alternator components for serviceability.
3. Replace any unserviceable components.
4. Assemble the alternator.
5. Test the alternator.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3524-MAIN-2009:** Repair personnel heater

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 24 months

**MOS PERFORMING:** 3524

**GRADES:** LCPL, CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with a faulty personnel heater, required tools, test equipment, replacement parts, shop supplies, cleaning materials and references.

**STANDARD:** To restore component to an operational level.

**PERFORMANCE STEPS:**

1. Disassemble a heater.
2. Inspect the components for serviceability.
3. Replace any unserviceable components.
4. Assemble the heater.
5. Test the heater.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3524-MAIN-2010:** Repair a nozzle

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 24 months

**MOS PERFORMING:** 3524

**GRADES:** LCPL, CPL, SGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Provided with a faulty nozzle, required tools, test equipment, replacement parts, shop supplies, cleaning materials and references.

**STANDARD:** To restore component to an operational level.

**PERFORMANCE STEPS:**

1. Perform a nozzle pretest.
2. Disassemble the nozzle.
3. Inspect the nozzle components for serviceability.
4. Replace any unserviceable components.
5. Assemble the nozzle.
6. Calibrate the nozzle.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. TM 00038G-035 MEP006A, MEP105A & MEP115A Generators
  4. TM 9-2815-220-34 Direct Support and General Support Maintenance Manual for Engine with Container: Turbocharged, Diesel, Fuel Injection, 90-Degree "V" Type, Air cooled, 12-Cylinder, Assembly
- 

**3524-MAIN-2011:** Repair an injector

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 24 months

**MOS PERFORMING:** 3524

**GRADES:** LCPL, CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with a faulty injector, required tools, test equipment, replacement parts, shop supplies, cleaning materials and references.

**STANDARD:** To restore component to an operational level.

**PERFORMANCE STEPS:**

1. Perform an injector pretest.
2. Disassemble the injector.
3. Inspect the injector components for serviceability.
4. Replace any unserviceable components.
5. Assemble the injector.
6. Calibrate the injector.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3524-MAIN-2012:** Repair a fuel pump

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3524

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with a faulty fuel pump, required tools, test equipment, replacement parts, shop supplies, cleaning materials and references.

STANDARD: To restore component to an operational level.

PERFORMANCE STEPS:

1. Perform a pump pretest.
2. Disassemble the fuel pump.
3. Inspect the components for serviceability.
4. Replace any unserviceable components.
5. Assemble the fuel pump.
6. Calibrate the fuel pump.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3524-MAIN-2013: Repair a fuel injection pump

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3524

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with a faulty injection pump, required tools, test equipment, replacement parts, shop supplies, cleaning materials and references.

STANDARD: To restore component to an operational level.

PERFORMANCE STEPS:

1. Perform a pretest.
2. Disassemble the fuel injection pump.
3. Inspect the components serviceability.
4. Replace any unserviceable components.
5. Assemble the fuel injection pump.
6. Calibrate the fuel injection pump.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. RS-8757A-50 Tractor, Med, Ft, Model D7G
  4. TM 00038G-035 MEP006A, MEP105A & MEP115A Generators
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MOTOR T T&R MANUAL

CHAPTER 7

MOS 3526 INDIVIDUAL EVENTS

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MOTOR T T&R MANUAL

CHAPTER 7

MOS 3526 INDIVIDUAL EVENTS

**7000. PURPOSE.** This chapter includes all individual events for the Crash/Fire/Rescue Vehicle Mechanic. Each event is composed of an individual event title, condition, standard, performance steps, support requirements, and references. Accomplishment and proficiency level required is determined by the event standard.

**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 code:

<u>Code</u>	<u>Description</u>
3526	Crash/Fire/Rescue Vehicle Mechanic

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

<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 level:

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

**7002. INDEX OF INDIVIDUAL EVENTS BY LEVEL**

<u>EVENT CODE</u>	<u>EVENT</u>	<u>PAGE</u>
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3526-MAIN-2005	Perform maintenance on the wiring/lighting system	7-5
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3526-MAIN-2007	Perform maintenance on the charging system	7-6
3526-MAIN-2008	Perform maintenance on the air induction system	7-7
3526-MAIN-2009	Perform maintenance on the compressed air brake system	7-7

3526-MAIN-2010	Perform maintenance on the exhaust system	7-8
3526-MAIN-2011	Perform maintenance on the fuel system	7-8
3526-MAIN-2012	Perform maintenance on the cold start system	7-8
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7003. 2000-LEVEL EVENTS

3526-MAIN-2001: Operate the truck firefighting system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire Rescue vehicle and references.

STANDARD: To successfully employ equipment during fires with minimum damage to equipment, personnel or property.

PERFORMANCE STEPS:

1. Perform operator PMCS.
2. Engage fire fighting systems.
3. Test fire fighting systems.

REFERENCES:

1. AEMI Applicable Equipment Modification Instruction
2. AETM Applicable Equipment Technical Manuals

3526-MAIN-2002: Perform Preventive maintenance Checks and Services (PMCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle, tools, equipment and references.

STANDARD: To ensure that all malfunctions are annotated and corrected.

PERFORMANCE STEPS:

1. Perform before operation PMCS.
2. Perform during operation PMCS.
3. Perform after operation PMCS.
4. Perform weekly PMCS.
5. Perform monthly PMCS.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. LI 08674A-12/1 Lubrication Instruction, Aircraft CFR Truck.
  4. TM 08674A-10/1 Ops and Maintenance Instructions Aircraft CFR Truck
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3526-MAIN-2003: Operate the truck in conjunction with road testing

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a Crash/Fire Rescue vehicle and references.

STANDARD: To safely maneuver vehicle with minimum damage to equipment, personnel or property.

PERFORMANCE STEPS:

1. Perform operator PMCS.
2. Drive the vehicle in all forward ranges.
3. Drive the vehicle in reverse.
4. Park the vehicle.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
-

3526-MAIN-2004: Operate the structural panel

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire Rescue vehicle and references.

STANDARD: To successfully employ equipment during fires with minimum damage to equipment, personnel or property.

PERFORMANCE STEPS:

1. Perform operator PMCS.
2. Start vehicle.
3. Activate the structural panel.
4. Engage the pump.
5. Engage the structural panel throttle.
6. Disengage the structural panel throttle.
7. Deactivate the structural panel.
8. Shut off the vehicle.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2005: Perform maintenance on the wiring/lighting system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty electrical wiring/lighting components, replacement parts, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the wiring/lighting system.
2. Test the wiring/lighting system.
3. Diagnose faulty wiring/lighting system.
4. Adjust components of the wiring/lighting system.
5. Replace components of the wiring/lighting system.
6. Repair defective wiring.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals

2. AIETM Applicable Interactive Electronic Technical Manual

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3526-MAIN-2006: Perform maintenance on the cranking system

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty cranking system, replacement parts, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the cranking system.
2. Test the cranking system.
3. Diagnose a malfunctioning cranking system.
4. Replace defective components of the cranking system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2007: Perform maintenance on the charging system

EVALUATION-CODED: NO SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty charging system, replacement parts, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the charging system.
2. Test the charging system.
3. Diagnose a malfunctioning charging system.
4. Replace defective components of the charging system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
-

3526-MAIN-2008: Perform maintenance on the air induction system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty air induction system, replacement parts, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect air induction system.
2. Test air induction system.
3. Diagnose a malfunctioning air induction system.
4. Service the air induction system.
5. Repair air induction system.
6. Replace defective components of the air induction system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2009: Perform maintenance on the compressed air brake system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty air brake system, replacement parts, tools, equipment and references.

STANDARD: As prescribed in the current reference(s).

PERFORMANCE STEPS:

1. Inspect the air brake system.
2. Test the air brake system.
3. Diagnose a malfunctioning air brake system.
4. Service the air brake system.
5. Replace defective components of the air brake system.
6. Adjust air brake system as required.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
-

3526-MAIN-2010: Perform maintenance on the exhaust system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty exhaust system, replacement parts, tools and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the exhaust system.
2. Test the exhaust system.
3. Diagnose a malfunctioning exhaust system.
4. Replace defective components of the exhaust system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2011: Perform maintenance on the fuel system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty fuel system, replacement parts, tools equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the fuel system.
2. Test the components of the fuel system.
3. Diagnose a malfunctioning fuel system.
4. Service the fuel system.
5. Replace components of the fuel system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2012: Perform maintenance on the cold start system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty starting system, replacement parts, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the cold start system.
2. Test the cold start system.
3. Diagnose a malfunctioning cold start system.
4. Replace defective components of the cold start system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2013: Perform maintenance on the hub assemblies

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty hub system, replacement parts, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Remove the truck hubs.
2. Inspect the truck hub assemblies for serviceability.
3. Remove the bearings.
4. Inspect the hub and bearing assemblies for serviceability.
5. Replace defective assembly components.
6. Install the bearings.
7. Install the hub assemblies.
8. Adjust the bearings.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2014: Perform maintenance on the drive train

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty drive train, replacement parts, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Perform maintenance on the transmission.
2. Perform maintenance on the power divider.
3. Perform maintenance on the propeller shaft assemblies.
4. Perform maintenance on the axles.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2015: Perform maintenance on the cooling system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty cooling system, replacement parts, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the cooling system.
2. Test the cooling system.
3. Diagnose a malfunctioning cooling system.
4. Service the cooling system.
5. Replace components of the cooling system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2016: Perform maintenance on the suspension system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty suspension system, replacement parts, tools and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the suspension system.
2. Test suspension system.
3. Diagnose a malfunctioning suspension system.
4. Replace unserviceable suspension components.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2017: Perform maintenance on the tire/wheel assembly

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given a Crash/Fire and Rescue vehicle, replacement parts, tools, equipment and references.

STANDARD: To successfully maintain operational status.

PERFORMANCE STEPS:

1. Inspect the tire/wheel assembly.
2. Diagnose a malfunctioning tire/wheel assembly.
3. Remove the tire/wheel assembly.
4. Repair the tire/wheel assembly.
5. Install the tire/wheel assembly.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2018: Perform maintenance on the fire fighting systems

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty fire fighting system, replacement parts, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect fire fighting system.
2. Test fire fighting system.
3. Diagnose a malfunctioning fire fighting system.
4. Repair fire fighting system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2019: Perform maintenance on the steering system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty steering system, replacement parts, tools and equipment.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the steering system.
2. Test the steering system.
3. Diagnose a malfunctioning steering system.
4. Service the steering system.
5. Replace components of the steering system.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2020: Repair firefighting system components

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with a damaged or faulty components, tools, equipment and references.

STANDARD: To successfully restore the system to operational status.

PERFORMANCE STEPS:

1. Inspect the fire fighting system components.
2. Determine repairs required.
3. Replace or repair component.
4. Test component for operability.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2021: Perform Scheduled Preventive Maintenance Checks and Services (PMCS)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3526

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given a Crash/Fire and Rescue vehicle with replacement parts, tools, equipment and references.

STANDARD: To successfully maintain the system at an operational level.

PERFORMANCE STEPS:

1. Perform weekly PMCS.
2. Perform quarterly PMCS.
3. Perform bi-annual PMCS.
4. Perform annual PMCS.
5. Lubricate the vehicle in conjunction with PMCS.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

3526-MAIN-2022: Perform maintenance on the winterization system

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 24 months

MOS PERFORMING: 3525

GRADES: LCPL, CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

**CONDITION:** Given a Crash/Fire and Rescue vehicle during the beginning of the winter season and references.

**STANDARD:** To maintain the proper cooling level and prevent overheating.

**PERFORMANCE STEPS:**

1. Inspect winterization system.
2. Test winterization system.
3. Diagnose a malfunctioning winterization system.
4. Repair/replace defective components of the winterization system.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3526-MAIN-2023:** Perform maintenance on the agent delivery system

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3526

**GRADES:** LCPL, CPL, SGT, SSGT, GYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a Crash/Fire and Rescue vehicle with a damaged or faulty agent delivery system, replacement parts, tools, equipment and references.

**STANDARD:** To successfully restore the system to operational status.

**PERFORMANCE STEPS:**

1. Inspect the agent delivery system.
2. Test the agent delivery system.
3. Diagnose a malfunctioning agent delivery system.
4. Adjust the system as required.
5. Replace unserviceable components of the agent delivery system.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3526-MAIN-2024:** Perform maintenance on the structural panel

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3526

**GRADES:** LCPL, CPL, SGT, SSGT, GYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a Crash/Fire and Rescue vehicle with a damaged or faulty structural panel, replacement parts, tools, equipment and references.

**STANDARD:** To successfully restore the system to operational status.

**PERFORMANCE STEPS:**

1. Inspect the structural panel.
2. Operate the structural panel.
3. Diagnose a malfunctioning structural panel.
4. Replace unserviceable components of the panel.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3526-MAIN-2025:** Perform maintenance on the power divider

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3526

**GRADES:** LCPL, CPL, SGT, SSGT, GYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a Crash/Fire and Rescue vehicle with a damaged or faulty power divider, replacement parts, tools, equipment and references.

**STANDARD:** To successfully restore the system to operational status.

**PERFORMANCE STEPS:**

1. Inspect the power divider assembly.
2. Diagnose a malfunctioning power divider assembly.
3. Remove the power divider assembly.
4. Rebuild the power divider assembly.
5. Install the power divider assembly.
6. Test the power divider assembly.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
- 

**3526-MAIN-2026:** Perform maintenance on the water delivery pump

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3526

**GRADES:** LCPL, CPL, SGT, SSGT, GYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a Crash/Fire and Rescue vehicle with a damaged or faulty water delivery pump, replacement parts, tools, equipment and references.

**STANDARD:** To successfully restore the system to operational status.



MOTOR T T&R MANUAL

CHAPTER 8

MOS 3529 INDIVIDUAL EVENTS

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MOTOR T T&R MANUAL

CHAPTER 8

MOS 3529 INDIVIDUAL EVENTS

**8000. PURPOSE.** This chapter includes all individual events for the Motor Transport Maintenance Chief. Each event is composed of an individual event title, condition, standard, performance steps, support requirements, and references. Accomplishment and proficiency level required is determined by the event standard.

**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 code:

<u>Code</u>	<u>Description</u>
3529	Motor Transport 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>
ADMN	Administration
MAIN	Maintenance
OPER	Operator

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 level:

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

**8002. INDEX OF INDIVIDUAL EVENTS BY LEVEL**

EVENT CODE	EVENT	PAGE
<b>2000-LEVEL</b>		
3529-ADMN-2101	Research maintenance information	8-3
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3529-OPER-2301	Direct camouflaging of motor transport equipment	8-11
3529-OPER-2302	Establish a tactical motor transport maintenance facility	8-12

8003. 2000-LEVEL EVENTS

3529-ADMN-2101: Research maintenance information

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3529

GRADES: SSGT, GYSGT, MSGT, MGYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given references, a requirement, and equipment.

STANDARD: To accomplish maintenance requirements and maintain unit readiness.

PERFORMANCE STEPS:

1. Select publications authorized within a given level of maintenance.
2. Locate maintenance tasks within the publications.
3. Locate information required for the requisitioning of repair parts within publications.

REFERENCES:

1. AEMI Applicable Equipment Modification Instruction
2. AETM Applicable Equipment Technical Manuals
3. AIETM Applicable Interactive Electronic Technical Manual
4. ALO/I Applicable Lubrication Order/Instruction
5. ATI Applicable Technical Instruction
6. FED LOG Federal Logistics Data <https://www.dlis.dla.mil/fedlog/default.asp>
7. SL 1-2 Index of Authorized Publication for Equipment Support
8. SL 1-3 Index of Authorized Publications in Stock

3529-ADMN-2102: Direct the use of motor transport maintenance records

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3529

**GRADES:** SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with references, a requirement, personnel and records.

**STANDARD:** To ensure accuracy and compliance.

**PERFORMANCE STEPS:**

1. Enforce the procedures for completing records.
2. Audit the records.
3. Manage the disposition of records.
4. Determine requirements for submitting Product Quality Deficiency Report (PQDR).
5. Determine requirements for submitting NAVMC 10772 (Recommended Changes to Publications Form).
6. Determine requirements for submitting application for Beneficial Suggestion Program (BENESUGS).

**REFERENCES:**

1. AEMI Applicable Equipment Modification Instruction
2. AETM Applicable Equipment Technical Manuals
3. AIETM Applicable Interactive Electronic Technical Manual
4. ALO/I Applicable Lubrication Order/Instruction
5. ATI Applicable Technical Instruction
6. MCBUL 3000 Marine Corps Automated Readiness Evaluation System (MARES) Equipment
7. MCO 3000.11\_ Marine Corps Automated Readiness Evaluation System (MARES)
8. MCO 4400.16\_ Uniform Material Movement and Issue Priority System
9. MCO P4400.150\_ Consumer Level Supply Policy Manual
10. MCO P4790.2\_ MIMMS Field Procedures Manual
11. TM 4700-15/1\_ Ground Equipment Record Procedures
12. UM 4790-5 MIMMS-AIS Field Maintenance Procedures

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**3529-ADMN-2103:** Plan supporting/supported unit combat service support responsibilities for the MT commodity

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3529

**GRADES:** SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given the operation order, references, commander's guidance and a requirement.

**STANDARD:** To meet the Commanding Officer's timeline requirements by identifying all support requirements.

**PERFORMANCE STEPS:**

1. Determine equipment requirements.
2. Conduct problem frame.
3. Determine personnel requirements.

4. Determine bill of material requirements.
5. Assign personnel.
6. Determine petroleum, oil and lubricant requirements.
7. Monitor maintenance budget.
8. Determine requirements for drafting Universal Needs Statement (UNS).
9. Determine requirements for drafting Table of Organization and Equipment Change Request (TOECR).
10. Identify Field Service Representative (FSR) capabilities/requirements.
11. Identify maintenance requirements based on fielding plan.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. ALO/I Applicable Lubrication Order/Instruction
4. ATI Applicable Technical Instruction
5. FM 55-30 Army Motor Transport Units and Operations
6. MCO 5311.1 Total Force Structure Process (TFSP)
7. MCO P1200.7 Military Occupational Specialties Manual
8. MCO P4400.150 Consumer Level Supply Policy Manual
9. MCO P4790.2 MIMMS Field Procedures Manual
10. MCTFSPRIUM Marine Corps Total Force System Personnel Reporting Instructions Users Manual
11. MCWP 4-1 Logistics Operations
12. MCWP 4-11 Tactical-Level Logistics
13. MCWP 4-11.3 Transportation Operations
14. MCWP 4-11.4 Maintenance Operations
15. MCWP 5-1 Marine Corps Planning Process (MCP)
16. TM 11240-OD Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment

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**3529-ADMN-2104:** Manage shop safety programs

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3529

**GRADES:** SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Given references, facilities, equipment and personnel.

**STANDARD:** To prevent damage to equipment or injury to personnel.

**PERFORMANCE STEPS:**

1. Implement safety program.
2. Enforce safety requirements when using compressed air.
3. Enforce regulations for using load bearing equipment.
4. Enforce regulations regarding a battery shop.
5. Enforce requirements for marking hazardous equipment.
6. Enforce proper use of equipment.
7. Enforce requirement for hearing conservation.
8. Identify regulations for using safety equipment.
9. Determine marking requirements of hazardous workspaces.
10. Enforce regulations for welding operations.

11. Enforce regulations for the use of respirators.

**REFERENCES:**

1. CFR 29 Code of Federal Regulations - Labor
2. MCO 3500.27 Operational Risk Management (ORM)
3. NAVMC DIR 5100.8 Marine Corps Occupational Safety and Health (OSH) Program Manual (May 06)
4. TM 10209-10/1 Use and Care of Hand Tools and Measuring Tools

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** This task has been selected as a DL candidate and will remain an MOJT event until a DL product is produced.

---

**3529-ADMN-2105:** Manage a section's hazardous material/hazardous waste site

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3529

**GRADES:** SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** DL

**CONDITION:** Given references, a requirement, equipment, personnel, hazardous material and/or hazardous waste.

**STANDARD:** Without risk to personnel, equipment or environment.

**PERFORMANCE STEPS:**

1. Handling of hazardous material/hazardous waste.
2. Direct the use of Personal Protective Equipment.
3. Direct the disposal of hazardous material/hazardous waste.

**REFERENCES:**

1. CFR 29 Code of Federal Regulations - Labor
2. CFR 40 Code of Federal Regulations - Hazardous Substances & Wastes
3. CFR 49 PARTS 100-185 Code of Federal Regulations - Transportation
4. DCAM 4145.11 Storage & Handling of Hazardous Material
5. MCO 10330.2D Storage and Handling of Liquefied and Gaseous Compressed Gasses and Their Full and Empty Cylinders (Jun 00)
6. MCO 4450.12A Storage and Handling of Hazardous Materials (Jan 99)
7. MCO P5090.2A Environmental Compliance and Protection Manual (Jul 98)
8. NAVMC DIR 5100.8 Marine Corps Occupational Safety and Health (OSH) Program Manual (May 06)
9. NAVSEA SWO20-AC-SAF-010 Transportation and Storage Data for Ammunition, Explosives and Related Hazardous Materials
10. NAVSEA SWO20-AF-ABK-010 Motor Vehicle Driver and Shipping Inspector's Manual for Ammunition, Explosives and Related Hazardous Materials
11. NAVSEA SWO20-AG-SAF-010 Navy Transportation Safety Handbook for Ammunition, Explosives and related Hazardous Materials
12. TM 9-6140-200-14 Lead Acid Batteries 4HN, 2H, 6TN

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** This task has been selected as a DL candidate and will remain a formal event until a DL product is produced. Training does not produce the NMOS of 9954.

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**3529-ADMN-2106:** Conduct Maintenance Automated Information System (MAIS) functions

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3529

**GRADES:** SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given references, a requirement, personnel, input transactions and output reports.

**STANDARD:** In accordance with maintenance management procedures to maintain unit readiness levels.

**PERFORMANCE STEPS:**

1. Identify the types of MAIS input transactions.
2. Monitor the preparation of MAIS input transactions.
3. Audit MAIS input transactions.
4. Determine the use of MAIS output reports.
5. Audit output reports.

**REFERENCES:**

1. MCBUL 3000 Marine Corps Automated Readiness Evaluation System (MARES) Equipment
  2. MCO 3000.11\_ Marine Corps Automated Readiness Evaluation System (MARES)
  3. MCO 4400.16\_ Uniform Material Movement and Issue Priority System
  4. MCO P4400.150\_ Consumer Level Supply Policy Manual
  5. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
  6. MCO P4790.2\_ MIMMS Field Procedures Manual
  7. TM 4700-15/1\_ Ground Equipment Record Procedures
  8. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
- 

**3529-ADMN-2107:** Manage maintenance production

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3529

**GRADES:** SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a motor transport shop, personnel, tools, supply requirements, and tactical vehicles.

**STANDARD:** Ensuring compliance within the maintenance section and increasing the operational readiness of the unit.

**PERFORMANCE STEPS:**

1. Validate supply requirements.
2. Reconcile supply requirements.
3. Direct tool control.
4. Direct a publication control library.
5. Direct Preventive Maintenance Checks and Services (PMCS).
6. Direct a sections Pre-expended Bin (PEB).
7. Direct procedures for unique maintenance requirements.
8. Determine preventive maintenance requirements.
9. Determine corrective maintenance requirements.
10. Audit MAIS transactions.
11. Enforce the use of MAIS output reports.
12. Direct calibrations program.
13. Direct modifications program.
14. Request overflow maintenance when conditions warrant.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. ASL-3 Applicable Stock Listing -3
4. MCO P4400.150\_ Consumer Level Supply Policy Manual
5. MCO P4790.2\_ MIMMS Field Procedures Manual
6. MCO P5215.17\_ Marine Corps Technical Publications System
7. MCO P5600.31\_ Marine Corps Publication and Printing Regulations
8. NAVMC 2761 Catalog of Publications
9. SL 1-2 Index of Authorized Publication for Equipment Support
10. SL 1-3 Index of Authorized Publications in Stock
11. TI 4733-OD/1 Calibration Requirements for Marine Corps Test, Measurement, and Diagnostic Equipment Calibration and Maintenance Program
12. TI 4733-OD/10 Special Calibration of Torque Tools
13. TM 4700-15/1\_ Ground Equipment Record Procedures
14. UM-MCPDS 5605 Marine Corps Publications Distribution System
15. UM-PLMS Marine Corps Publications Library Management System (PLMS) Users Manual

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**3529-ADMN-2108:** Supervise motor transport maintenance functions

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3529

**GRADES:** SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with a requirement, personnel, records and the references.

**STANDARD:** To ensure accuracy and compliance.

**PERFORMANCE STEPS:**

1. Manage maintenance administration.

2. Manage personnel & training.
3. Manage records and reports.
4. Manage publications control.
5. Manage equipment availability.
6. Manage preventative maintenance checks, services and corrective maintenance.
7. Manage supply support.
8. Manage maintenance related programs.

**REFERENCES:**

1. AEMI Applicable Equipment Modification Instruction
  2. AETM Applicable Equipment Technical Manuals
  3. AIETM Applicable Interactive Electronic Technical Manual
  4. ATI Applicable Technical Instruction
  5. MCO 3000.11\_ Marine Corps Automated Readiness Evaluation System (MARES)
  6. MCO 4400.16\_ Uniform Material Movement and Issue Priority System
  7. MCO 4855.10\_ Product Quality Deficiency Report (PQDR)
  8. MCO P4790.1 Marine Corps Integrated Maintenance Management System (MIMMS) Manual
  9. MCO P4790.2\_ MIMMS Field Procedures Manual
  10. TM 4700-15/1\_ Ground Equipment Record Procedures
  11. TM 4790.2\_ MIMMS Field Procedures Manual
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**3529-MAIN-2109:** Maintain equipment accountability

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3529

**GRADES:** SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given equipment and equipment accountability records.

**STANDARD:** Ensuring 100% accountability and accurate documentation of equipment and supplies.

**PERFORMANCE STEPS:**

1. Receipt for all on hand equipment.
2. Submit required documentation.
3. Conduct inventories as required.
4. Manage sub-custody as required.

**REFERENCES:**

1. MCO P4400.150\_ Consumer Level Supply Policy Manual
  2. UM 4400-123 FMF SASSY Management Unit Procedures
  3. UM 4400-124 SASSY Using Unit Procedures
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**3529-MAIN-2201:** Direct maintenance actions during convoy operations

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

MOS PERFORMING: 3529

GRADES: SSGT, GYSGT, MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with references, proposed convoy composition and the convoy route.

STANDARD: To safely meet operational requirements with no injury to personnel or damage to equipment.

PERFORMANCE STEPS:

1. Review the convoy composition.
2. Review the convoy route.
3. Determine maintenance support requirements.
4. Direct the performance of required maintenance.
5. Direct recovery operations.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. ALO/I Applicable Lubrication Order/Instruction
  4. ASL-3 Applicable Stock Listing -3
  5. MCRP 4-11.3F Convoy Operations Handbook
  6. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for Tactical Convoy Operations
  7. MCWP 4-11.4 Maintenance Operations
  8. TM 11240-OD Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment
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3529-MAIN-2202: Direct the preparation of maintenance support equipment for embarkation

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3529

GRADES: SSGT, GYSGT, MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with applicable reference materials and a requirement to prepare motor transport equipment.

STANDARD: To accomplish embarkation without damage to equipment or injury to personnel.

PERFORMANCE STEPS:

1. Identify the services that must be performed prior to embarkation.
2. Direct services required for embarkation.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual

3. DOD 4500.9-R Defense Transportation Regulation Parts I, II & III
  4. JP 3-02.2 Amphibious Embarkation
  5. MCO P4030.19 Preparing Hazardous Materials for Military Air Shipments
  6. MCO P4030.21 Packing of Material
  7. MCO P4030.31 Packing of Material, Preservation
  8. MCO P4030.36 Marine Corps Packaging Manual
  9. MCRP 4-11.3G Unit Embarkation Handbook
  10. NAVSEA SWO20-AF-HBK-010 Motor Vehicle Driver and Shipping Inspector's Manual for Ammunition, Explosives, and Related Hazardous Materials
  11. TM 11240-OD Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment
  12. TM 11275-15/3D Principal Technical Characteristics of U.S. Marine Corps Engineer Equipment
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**3529-MAIN-2203:** Manage a load testing program

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

**MOS PERFORMING:** 3529

**GRADES:** SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given references, personnel, equipment and a requirement.

**STANDARD:** To meet operational requirements without damage to equipment or injury to personnel.

**PERFORMANCE STEPS:**

1. Determine load test requirements.
2. Verify completion of load test records.
3. Direct the disposition of load test records.
4. Certify the Annual Condition Inspection (ACI) and/or load test of tactical ground load lifting equipment.

**REFERENCES:**

1. BCS3 Users Guide Battle Command Sustainment Support System (BCS3) Users Guide
  2. C2PC Users Guide Command and Control Personal Computer (C2PC) Users Guide (current version)
  3. CLC2S Users Guide Common Logistics Command and Control System (CLC2S) Users Guide
  4. MCWP 4-11.3 Transportation Operations
  5. MSTP PAM 4-0.1 Movement Control
  6. TCPT Users Guide Transportation Capacity Planning Tool (TCPT) Users Guide
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**3529-OPER-2301:** Direct camouflaging of motor transport equipment

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

**MOS PERFORMING:** 3529

GRADES: SSGT, GYSGT, MSGT, MGYSGT

INITIAL TRAINING SETTING: MOJT

CONDITION: Given references, supplies, equipment, vehicles, personnel, and a requirement.

STANDARD: To obscure observation.

PERFORMANCE STEPS:

1. Perform counter detection techniques.
2. Determine factors of detection.
3. Determine camouflage principles.
4. Apply methods of concealment.
5. Determine vehicles revealing factors.
6. Determine vehicle camouflage measures.

REFERENCES:

1. FM 20-3 Camouflage, Concealment, and Decoys
  2. FM 55-30 Army Motor Transport Units and Operations
  3. TM 5-1080-200-13&P Operators' Organizational and Direct Support Manual for Lightweight Camouflage Screen Systems
  4. TM 5-1080-250-12&P Ultralight Weight Camo Net System
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3529-OPER-2302: Establish a tactical motor transport maintenance facility

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3529

GRADES: SSGT, GYSGT, MSGT, MGYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given references, a site location, equipment and personnel.

STANDARD: To safely meet operational requirement with no injury to personnel or damage to equipment.

PERFORMANCE STEPS:

1. Conduct site reconnaissance.
2. Establish security.
3. Determine road network requirements.
4. Determine terrain requirements.
5. Determine facility requirements.
6. Determine space requirement for facility.
7. Determine space requirement for equipment.
8. Determine emergency exits.
9. Determine requirements for a fire prevention plan.
10. Determine physical security requirements.
11. Develop a defense plan.
12. Determine environmental considerations.

REFERENCES:

1. FM 55-30 Army Motor Transport Units and Operations

2. MCO P4790.2\_ MIMMS Field Procedures Manual
  3. MCWP 4-11.4 Maintenance Operations
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