



**DEPARTMENT OF THE NAVY**  
HEADQUARTERS UNITED STATES MARINE CORPS  
3000 MARINE CORPS PENTAGON  
WASHINGTON, D.C. 20350-3000

NAVMC 3500.39A  
C 469  
AUG 17 2010

NAVMC 3500.39A

From: Commandant of the Marine Corps  
To: Distribution List

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

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

1. Purpose. Per reference (a), this T&R Manual establishes Core Capability Mission Essential Tasks (MET) for readiness reporting and required events for standardization training of Marines and Navy personnel assigned to the Marine Corps Motor Transport community. Additionally, it provides tasking for formal schools preparing personnel for service in the Motor Transport occupational career field. This NAVMC supersedes MCO 1510.68B Individual Training Standards for OccFld 35.

2. Scope

a. The Core Capability Mission Essential Task List (METL) in this manual is used in Defense Readiness Reporting System (DRRS) by the Motor Transport community for the assessment and reporting of unit readiness. Units achieve training readiness for reporting in DRRS by gaining and sustaining proficiency in the training events in this manual at both collective (unit) and individual levels. Commanders are to report the training readiness of their units based on the percentage of core METs trained to standard in accordance with Annex C of this Training and Readiness Manual.

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

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

AUG 17 2010

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

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

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

5. Certification. Reviewed and approved this date.

  
R. C. FOX  
By direction

Distribution: PCN 10031976000

Copy to: 7000260 (2)  
8145001 (1)

LOCATOR SHEET

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

Location: \_\_\_\_\_  
(Indicate location(s) of copy(ies) of this Manual.)

RECORD OF CHANGES

Log completed change action as indicated

Change Number	Date of Change	Date Entered	Signature of Person Incorporating Change

MOTOR T T&R MANUAL

TABLE OF CONTENTS

CHAPTER

1. . . . . USER'S OVERVIEW  
2. . . . . MISSION ESSENTIAL TASKS MATRIX  
3. . . . . COLLECTIVE EVENTS  
4. . . . . MOS 3510 INDIVIDUAL EVENTS  
5. . . . . MOS 3521 INDIVIDUAL EVENTS  
6. . . . . MOS 3522 INDIVIDUAL EVENTS  
7. . . . . MOS 3524 INDIVIDUAL EVENTS  
8. . . . . MOS 3526 INDIVIDUAL EVENTS  
9. . . . . MOS 3529 INDIVIDUAL EVENTS  
10 . . . . . MOS 3531 INDIVIDUAL EVENTS  
11 . . . . . MOS 3533 INDIVIDUAL EVENTS  
12 . . . . . MOS 3534 INDIVIDUAL EVENTS  
13 . . . . . MOS 3536 INDIVIDUAL EVENTS  
14 . . . . . MOS 3537 INDIVIDUAL EVENTS  
15 . . . . . MOS 3538 INDIVIDUAL EVENTS

APPENDIX

A. . . . . FUNCTIONAL AREA MATRIX  
B. . . . . GLOSSARY  
C. . . . . REFERENCES

MOTOR T T&R MANUAL

CHAPTER 1

OVERVIEW

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

MOTOR T T&R MANUAL

CHAPTER 1

OVERVIEW

**1001. INTRODUCTION**

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

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

**1002. UNIT TRAINING**

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

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

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

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

#### **1003. UNIT TRAINING MANAGEMENT**

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

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

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

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

#### **1004. 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. Reference (a) provides further guidance on the conduct of informal and formal evaluations using the Marine Corps Ground T&R Program.

#### **1005. ORGANIZATION**

1. T&R Manuals are organized in one of two methods: unit-based or community-based. Unit-based T&R Manuals are written to support a type of unit (Infantry, Artillery, Tanks, etc.) and contain both collective and individual training standards. Community-based are written to support an Occupational Field, a group of related Military Occupational Specialties (MOSs), or billets within an organization (EOD, NBC, Intel, etc.), and may only contain individual training standards. T&R Manuals are comprised of chapters that contain unit METs, collective training standards (CTS), and individual training standards (ITS) for each MOS, billet, etc.

2. The Marine Corps Motor Transport T&R Manual is a community-based manual, written to support the MCCA community. The manual is not intended, nor should it be used as a stand-alone document. It is organized into 15 chapters. Chapter 2 lists the Core Capability METS. Chapter 3 contains collective events and chapters 4-15 contain individual events.

#### **1006. T&R EVENT CODING**

1. T&R events are coded for ease of reference. Each event has a 4-4-4-digit identifier. The first four digits represent the MOS or occupational field (e.g. 3510, 3521, etc.).

2. The second four digits represent the functional or duty area (e.g. MAIN = MAINTENANCE, OPER = OPERATOR, TRNG = TRAINING, ADMN = ADMINISTRATIVE). The last four digits represent the Individual or Collective event level and

sequencing number of the event. Every event has a sequence number from 001 to 999. See Sect 1008 for more information on E-Coded events.

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

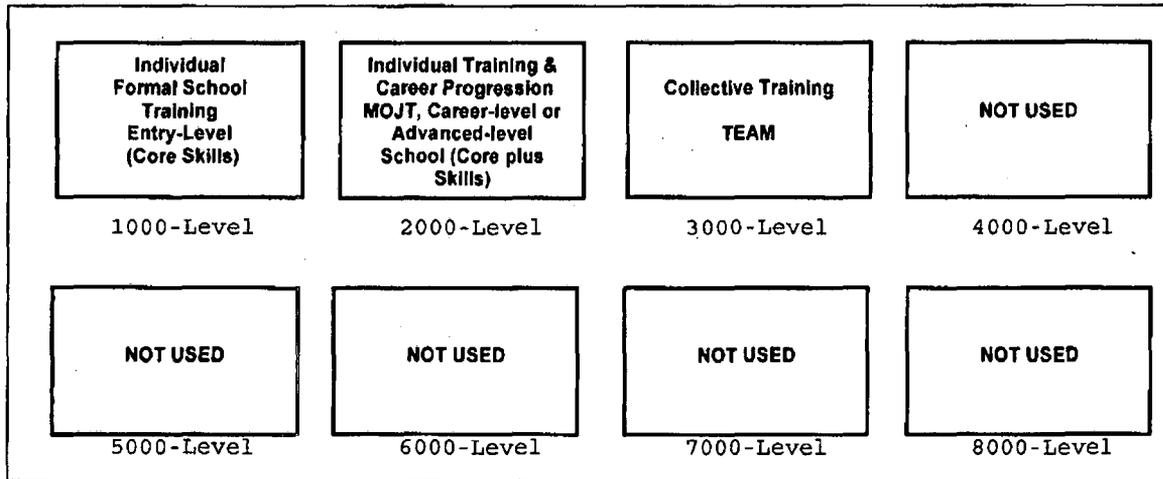


Figure 1: T&R Event Levels

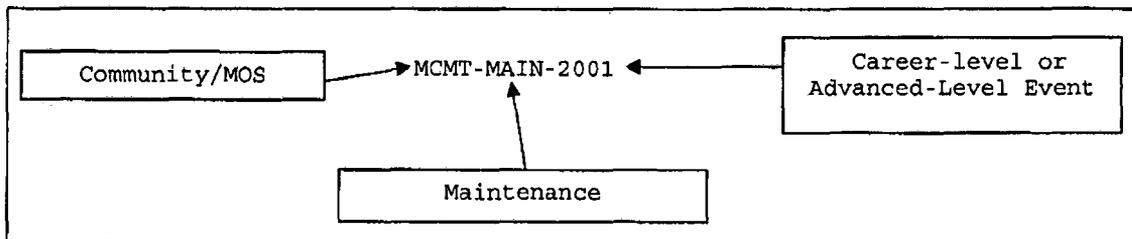


Figure 2: T&R Event Coding

**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. In unit-based T&R Manuals, unit combat readiness is assessed as a percentage of the successfully completed and current (within sustainment interval) key training events called "Evaluation-Coded" (E-Coded) Events. E-Coded Events and unit CRP calculation are described in follow-on paragraphs. CRP achieved through the completion of E-Coded Events is directly relevant to readiness assessment in DRRS.

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

#### **1008. EVALUATION-CODED (E-CODED) EVENTS**

1. Unit-type T&R Manuals can contain numerous unit events, some for the whole unit and others for integral parts that serve as building blocks for training. To simplify training management and readiness assessment, only collective events that are critical components of a mission essential task (MET), or key indicators of a unit's readiness, are used to generate CRP for a MET. These critical or key events are designated in the T&R Manual as Evaluation-Coded (E-Coded) events. Formal evaluation of unit performance in these events is recommended because of their value in assessing combat readiness. Only E-Coded events are used to calculate CRP for each MET. See Sect 1006 for how to identify what type of unit an event is E-Coded for.

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

#### **1009. CRP CALCULATION**

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

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

contributing 25% towards the completion of the MET. If the unit has completed and is current on three of the four E-Coded events for a given MET, then they have completed 75% of the MET. The CRP for each MET is added together and divided by the number of METS to get unit CRP; unit CRP is the average of MET CRP.

For Example:

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

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

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

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

#### 1010. T&R EVENT COMPOSITION

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

a. Event Code (see Sect 1006). The event code is a 4-4-4 character set. For individual training events, the first 4 characters indicate the occupational function. The second 4 characters indicate functional area (ADMN, MAIN, OPER, TRNG, etc...). The third character identifies Units for E-Coding. The last two characters are simply a numerical designator for the event.

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

c. E-Coded. This is a "yes/no" category to indicate whether or not the event is E-Coded. If yes, the event contributes toward the CRP of the associated MET. The value of each E-Coded event is based on number of E-Coded events for that MET. The E-Coded unit is designated by the hundreds place in the event sequence. Refer to Sect 1008 for detailed explanation of E-Coded events and Sect 1006 for T&R Event Coding specifics.

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

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

f. Billet. Individual training events may contain a list of billets within the community that are responsible for performing that event. This

ensures that the billets expected tasks are clearly articulated and a Marine's readiness to perform in that billet is measured.

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

h. Initial Training Setting. For Individual T&R Events only, this specifies the location for initial instruction of the training event in one of three categories (formal school, managed on-the-job training, distance learning). Regardless of the specified Initial Training Setting, any T&R event may be introduced and evaluated during managed on-the-job training.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### **1011. NBC TRAINING**

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

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

#### **1012. NIGHT TRAINING**

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

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

#### **1013. 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).

**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' METs.

MOTOR T T&R MANUAL

CHAPTER 2

MISSION ESSENTIAL TASKS MATRIX

	<u>PARAGRAPH</u>	<u>PAGE</u>
MISSION ESSENTIAL TASK MATRIX . . . . .	2000	2-2
MISSION ESSENTIAL TASKS LIST. . . . .	2001	2-2

MOTOR T T&R MANUAL

CHAPTER 2

MISSION ESSENTIAL TASKS MATRIX

2000. **SERVICE-LEVEL MISSION ESSENTIAL TASK MATRIX.** Below is the Service-Level Mission Essential Task List (METL), which includes the designated MET number and title. The following event codes are the linked collective events that support the MET.

2001. **MET#/MISSION ESSENTIAL TASK**

<b>MET 1</b>	<b>CONDUCT MAINTENANCE OPERATIONS</b>
MCMT-MAIN-3002	Maintain motor transport equipment
MCMT-OPER-3007	Establish a tactical motor pool
<b>MET 2</b>	<b>CONDUCT MODIFICATION</b>
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 3</b>	<b>CONDUCT REBUILDING AND OVERHAUL</b>
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 4</b>	<b>CONDUCT MOTOR TRANSPORT OPERATIONS</b>
MCMT-LIC -3001	Provide a licensing program
MCMT-MAIN-3002	Maintain motor transport equipment
MCMT-OPER-3004	Conduct convoy operations
MCMT-OPER-3006	Conduct movement control
MCMT-OPER-3008	Conduct refueling operations
<b>MET 5</b>	<b>CONDUCT SERVICE, ADJUSTMENT, AND TUNING</b>
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 6</b>	<b>CONDUCT REPAIR</b>
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 7</b>	<b>CONDUCT TRANSPORTATION OPERATIONS</b>
MCMT-MAIN-3005	Conduct recovery operations
MCMT-OPER-3004	Conduct convoy operations
MCMT-OPER-3005	Conduct movement control
<b>MET 8</b>	<b>CONDUCT RECOVERY AND EVACUATION OPERATIONS</b>
MCMT-MAIN-3002	Maintain motor transport equipment
MCMT-MAIN-3003	Perform maintenance on recovered equipment
MCMT-OPER-3008	Conduct refueling operations
<b>MET 9</b>	<b>CONDUCT INSPECTION AND CLASSIFICATION</b>
MCMT-MAIN-3002	Maintain motor transport equipment
<b>MET 10</b>	<b>CONDUCT GROUND EQUIPMENT MAINTENANCE</b>
MCMT-MAIN-3002	Maintain motor transport equipment

MOTOR T T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE . . . . .	3000	3-2
EVENT CODING. . . . .	3001	3-2
INDEX OF COLLECTIVE EVENTS. . . . .	3002	3-3
3000-LEVEL EVENTS . . . . .	3003	3-4

MOTOR T T&R MANUAL

CHAPTER 3

COLLECTIVE EVENTS

**3000. PURPOSE.** This chapter includes all collective training events for Motor Transport. A collective event is an event that a trained Engineer Unit would accomplish in the execution of Mission Essential Tasks (METs). These events are linked to a Service-Level Mission Essential Task. This linkage tailor's individual and collective training for the selected MET. Each event is composed of a collective event title, event description, condition, and standard. Accomplishment and proficiency level required is determined by the event standard.

**3001. EVENT CODING.** Collective T&R events are coded for ease of reference. Each event has up to 4-4-4-character identifier.

- a. The first four characters represent the community:

MCMT - Marine Corps Motor Transport

b. The second up to four characters represent the functional or duty area. This chapter contains the duty areas listed below. See Appendix A for a complete list of functional areas.

LIC - Licensing  
MAIN - Maintenance  
OPER - Operations

c. The first of the last four characters represent the level (1000 or 2000) and the last three characters the sequence (1001, 2002) of the event. The Motor Transport collective training events are captured in the 3000 (Team) Level.

3002. INDEX OF COLLECTIVE EVENTS

Event Code	E-coded	3000-LEVEL EVENTS	Page
MCMT-LIC -3001	NO	Provide a licensing program	3-4
MCMT-MAIN-3002	NO	Maintain motor transport equipment	3-4
MCMT-MAIN-3003	NO	Perform maintenance on recovered equipment	3-5
MCMT-OPER-3004	NO	Conduct convoy operations	3-6
MCMT-OPER-3005	NO	Conduct recovery operations	3-6
MCMT-OPER-3006	NO	Conduct movement control	3-7
MCMT-OPER-3007	NO	Establish a tactical motor pool	3-7
MCMT-OPER-3008	NO	Conduct refueling operations	3-8

3003. 3000-LEVEL EVENTS

MCMT-LIC-3001: Provide a licensing program

SUPPORTED MET(S): 4

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

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. LI 2320-12/8 Lubrication Instruction HMMWV
3. LO 2320-387-12 Lube order HMMWV
4. LO 9 2320 272 12 M939
5. TM 11240-15/4 Motor Transport Equipment Characteristics Manual

6. TM 9-2300-422-23&P Army Oil Analysis Sampling Values Army Oil Analysis
7. TM 9-2320-260-10 Operator Manual for Trk 5 Ton, 6x6 M809 Series
8. TM 9-2320-272-10 Operator Manual for M939 Series Vehicle
9. TM 9-2320-280-10 Operator Manual for the 1 1/2 Ton M998
10. TM 9-2320-387-24 Vol 1 Technical Manual Unit Maintenance for Truck:  
Utility: Cargo/Troop Carrier 2 1/4 Ton 4X4
11. TM 9-2320-387-24 Vol 2 Technical Manual Unit Maintenance for Truck:  
Utility: Cargo/Troop Carrier 2 1/4 Ton 4X4
12. TM 9-2323-392-10-1 Operator Manual for the Medium Tactical Vehicle
13. TM 9-2330-202-14&P Trailer, Cargo 3/4 Ton, 2 Wheel
14. TM 9-2330-213-14&P M103 Chassis, Trailer, 1 1/2 Ton, 2-Wheel
15. TM 9-2330-247-14&P M353 Chassis, Trailer, 3 1/2 Ton, 2-Wheel
16. TM 9-2330-267-14&P M149A/A1/A2 Trailer Tank Water, 1 1/2 Ton, 2-Wheel
17. TM 9-2990-205-40&P Turbocharger, Engine Assembly
18. TM 9-4910-593-12P Tow Bar Motor Vehicle

**SUPPORT REQUIREMENTS:**

**OTHER SUPPORT REQUIREMENTS:** Contract Logistics Support

---

**MCMT-MAIN-3003:** Perform maintenance on recovered equipment

**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. Cut metal with oxygen acetylene torch.
2. Change Logistics Vehicle System wheel and tire assembly.
3. Perform PMCS on tactical wrecker, auxiliary tools and equipment.
4. Perform field expedient repairs.

**REFERENCES:**

1. LI 2320-12/8 Lubrication Instruction HMMWV
  2. LO 2320-387-12 Lube order HMMWV
  3. LO 9 2320 272 12 M939
  4. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
  5. TM 9-2320-387-24 Vol 1 Technical Manual Unit Maintenance for Truck:  
Utility: Cargo/Troop Carrier 2 1/4 Ton 4X4
  6. TM 9-2320-387-24 Vol 2 Technical Manual Unit Maintenance for Truck:  
Utility: Cargo/Troop Carrier 2 1/4 Ton 4X4
  7. TM 9-2330-202-14&P Trailer, Cargo 3/4 Ton, 2 Wheel
  8. TM 9-2330-213-14&P M103 Chassis, Trailer, 1 1/2 Ton, 2-Wheel
  9. TM 9-2330-247-14&P M353 Chassis, Trailer, 3 1/2 Ton, 2-Wheel
-

**MCMT-OPER-3004:** Conduct convoy operations

**SUPPORTED MET(S):** 4, 7

**EVALUATION-CODED:** NO **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. TM 9-2320-260-10 Operator Manual for Trk 5 Ton, 6x6 M809 Series
  6. TM 9-2320-272-10 Operator Manual for M939 Series Vehicle
  7. TM 9-2320-280-10 Operator Manual for the 1 1/2 Ton M998
  8. TM 9-2330-202-14&P Trailer, Cargo 3/4 Ton, 2 Wheel
  9. TM 9-2330-213-14&P M103 Chassis, Trailer, 1 1/2 Ton, 2-Wheel
  10. TM 9-2330-247-14&P M353 Chassis, Trailer, 3 1/2 Ton, 2-Wheel
  11. TM 9-2330-267-14&P M149A/A1/A2 Trailer Tank Water, 1 1/2 Ton, 2-Wheel
- 

**MCMT-OPER-3005:** Conduct recovery operations

**SUPPORTED MET(S):** 7

**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. ALETM 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
- 

**MCMT-OPER-3006:** Conduct movement control

**SUPPORTED MET(S):** 4, 7

**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-3007:** 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
- 

**MCMT-OPER-3008:** Conduct refueling operations

**SUPPORTED MET(S):** 4, 8

**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
-

MOTOR T T&R MANUAL

CHAPTER 4

MOS 3510 INDIVIDUAL EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE . . . . .	4000	4-2
EVENT CODING . . . . .	4001	4-2
INDEX OF EVENTS BY LEVEL. . . . .	4002	4-3
2000-LEVEL EVENTS . . . . .	4003	4-4

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**

1. Individual T&R events are coded for ease of reference. Each event has a 4-4-4-character identifier. The first four characters represent the MOS (3510).
2. The second up to four characters represent the functional or duty area. For example:

ADMN - Administration  
LIC - Licensing  
MAIN - Maintenance  
OPER - Operator  
TRNG - Training

See Appendix A for a complete list of functional areas.

3. The first of the last four characters represent the level (1000 or 2000) and the last three characters the sequence (1001, 2101) of the event. There is only one level of individual training events for the Motor Transport Maintenance Officer:

2000 - Core Plus Skills

4002. INDEX OF EVENTS BY LEVEL

2000-LEVEL EVENTS		
EVENT	TITLE	PAGE
3510-ADMN-2101	Direct the handling of Hazardous Materials (HAZMAT)	4-4
3510-ADMN-2102	Direct calibration control program	4-4
3510-ADMN-2103	Manage a publication control system	4-5
3510-ADMN-2104	Inspect operational records	4-6
3510-ADMN-2105	Direct a equipment modification control program	4-7
3510-ADMN-2106	Direct Marine Corps Integrated Maintenance Management System (MIMMS) procedures for unique maintenance requirements	4-7
3510-ADMN-2107	Maintain a Consolidated Memorandum Receipts (CMR) account	4-8
3510-LIC -2201	Manage a licensing program	4-8
3510-MAIN-2301	Manage Pre-Expended Bins (PEB)	4-9
3510-MAIN-2302	Direct corrective maintenance requirements for motor transport equipment	4-9
3510-MAIN-2303	Supervise validation of supply requirements	4-10
3510-MAIN-2304	Submit a Product Quality Deficiency Report (PQDR)	4-10
3510-MAIN-2305	Supervise the processing of equipment through maintenance phases	4-11
3510-MAIN-2306	Manage tool control	4-11
3510-MAIN-2307	Select motor transport equipment for participation in maintenance related programs	4-12
3510-MAIN-2308	Direct the reconciliation of supply requirements	4-13
3510-MAIN-2309	Direct maintenance automated information system related functions	4-13
3510-MAIN-2310	Manage a load testing program	4-14
3510-MAIN-2311	Manage motor transport maintenance records	4-14
3510-MAIN-2312	Direct shop safety programs	4-15
3510-MAIN-2313	Establish a motor transport support requirements plan	4-16
3510-OPER-2401	Conduct convoy commander duties	4-17
3510-OPER-2402	Prepare motor transport appendix to an operations order	4-18
3510-OPER-2403	Establish a tactical motor pool	4-18
3510-OPER-2404	Supervise self-recovery operations	4-19
3510-OPER-2405	Employ a vehicle recovery section	4-20
3510-OPER-2406	Direct maintenance functions in convoy operations	4-20
3510-OPER-2407	Determine requirements for Maritime Preposition Force (MPF) operations	4-21
3510-OPER-2408	Manage tactical movement using an automated information system	4-22
3510-OPER-2409	Direct camouflaging of motor transport equipment	4-22
3510-OPER-2410	Direct the preparation of maintenance support equipment for embarkation	4-23

4003. 2000-LEVEL EVENTS

3510-ADMN-2101: Direct the handling of Hazardous Material (HAZMAT)

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3529

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given references, equipment, personnel and a requirement in a shop environment with HAZMAT.

STANDARD: To safely use, store and dispose of HAZMAT without risk to personnel, equipment or environment.

PERFORMANCE STEPS:

1. Identify Hazardous Materials (HAZMAT).
2. Determine proper handling and storage procedures.
3. Provide guidance for the disposition of HAZMAT.

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 Handbook for Ammunition, Explosives and 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.

---

3510-ADMN-2102: Direct a calibration control program

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 requirement, equipment, personnel, records, forms and references.

**STANDARD:** To provide accurate test, measurement and diagnostic equipment capabilities.

**PERFORMANCE STEPS:**

1. Identify Test Measurement and Diagnostic Equipment (TMDE).
2. Validate annual Test Measurement and Diagnostic Equipment (TMDE) requirements.
3. Audit calibration control records.
4. Direct the submission of equipment for calibration.
5. Determine control procedures.
6. Determine the required types of calibration.
7. Verify associated labels.

**REFERENCES:**

1. MCO 4733.1B Marine Corps Test, Measurement, and Diagnostic Equipment (TMDE) Calibration and Maintenance Program (CAMP) (Jun 99)
2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
3. TI 4733-OD/1 Calibration Requirements for Marine Corps Test, Measurement, and Diagnostic Equipment Calibration and Maintenance Program
4. TI 4733-OD/10 Special Calibration of Torque Tools
5. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
6. UM 4790-5 MIMMS-AIS Field Maintenance Procedures

**MISCELLANEOUS:**

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

---

**3510-ADMN-2103:** Manage a publication control system

**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 references, a requirement, personnel and support equipment, forms and a publication library.

**STANDARD:** To maintain an up to date and accurate publications library.

**PERFORMANCE STEPS:**

1. Audit the library publications control documents.
2. Inspect the library for missing publications.
3. Inspect the library for outdated publications.
4. Verify the ordering of deficient publications.
5. Direct the implementation of publication changes to include NAVMC 10772.

**REFERENCES:**

1. MCO 5215.1K Marine Corps Directives Management Program
2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
3. MCO P5215.17C The Marine Corps Technical Publications System (Jun 96)
4. MCO P5600.31G Marine Corps Publications and Printing Regulations (Sep 93)
5. NAVMC 2761 Catalog of Publications (Oct 07)
6. SL 1-2 Index of Authorized Publication for Equipment Support
7. SL 1-3 Index of Authorized Publications in Stock
8. UM-MCPDS 5605 Marine Corps Publications Distribution System
9. UM-PLMS Marine Corps Publications Library Management System (PLMS) Users Manual

**MISCELLANEOUS:**

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

---

**3510-ADMN-2104:** Inspect operational records

**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, completed forms and records.

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

**PERFORMANCE STEPS:**

1. Audit forms/records.
2. Perform disposition procedures of forms/records.

**REFERENCES:**

1. MCO 11240.66\_ Standard Licensing Policy for Operators of Military Motor Vehicles
  2. TM 11240-15/3F Motor Vehicle Licensing Official's Manual
  3. TM 11275-15/4 Tactical Engineer Equipment Licensing Examiner's Manual (Jun 83)
  4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
-

**3510-ADMN-2105:** Direct an equipment modification control program

**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 requirement, references, personnel and equipment.

**STANDARD:** To safely meet operational requirements or capabilities.

**PERFORMANCE STEPS:**

1. Identify equipment that will be placed in the modification program.
2. Establish methods of controlling a modification program.
3. Identify records used for the control of the modification program.
4. Audit modification control records.
5. Direct application of the modification.
6. Identify types of modification and time compliance.
7. Conduct proper requisition procedures.

**REFERENCES:**

1. AEMI Applicable Equipment Modification Instruction
2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
3. SL 1-2 Index of Authorized Publication for Equipment Support
4. SL 1-3 Index of Authorized Publications in Stock
5. TI 5600 Publication Information Marine Corps Equipment
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
7. UM 4790-5 MIMMS-AIS Field Maintenance Procedures

**MISCELLANEOUS:**

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

---

**3510-ADMN-2106:** Direct Maintenance Automated Information System (MAIS) procedures for unique maintenance requirements

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

**MOS PERFORMING:** 3510

**GRADES:** CWO-4, CWO-5

**INITIAL TRAINING SETTING:** MOJT

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

**STANDARD:** To ensure compliance within the maintenance requirements and enhance unit readiness.

**PERFORMANCE STEPS:**

1. Perform commodity manager/maintenance officer responsibilities.
2. Enforce selective interchange procedures for maintenance requirements.
3. Enforce cannibalization procedures for maintenance requirements.
4. Perform procedures for approval of an increase in echelon of maintenance (EOM).

**REFERENCES:**

1. MCO P4790.1 MIMMS Introduction Manual
  2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
- 

**3510-ADMN-2107:** Maintain a Consolidated Memorandum Receipts (CMR) account

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Given an assignment as a Responsible Officer (RO), a Consolidated Memorandum Receipts (CMR) account and references.

**STANDARD:** To ensure accountability and accurate documentation of equipment and supplies.

**PERFORMANCE STEPS:**

1. Determine how frequently the CMR is published.
2. Complete the CMR review.
3. Perform RO responsibilities for discrepancies.

**REFERENCES:**

1. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  2. UM 4400-123 FMF SASSY Management Unit Procedures
  3. UM 4400-124 Sassy Using Unit Procedures
- 

**3510-LIC-2201:** 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:** To ensure 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.

**RELATED EVENTS:**

3538-LIC-2001                      3538-LIC-2004                      3538-LIC-2003  
3538-LIC-2002

**REFERENCES:**

1. MCO 11240.66\_ Standard Licensing Policy for Operators of Military Motor Vehicles
2. TM 11240-15/3F Motor Vehicle Licensing Official's Manual

---

**3510-MAIN-2301:** Manage Pre-Expended Bins (PEB)

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Given references and a requirement.

**STANDARD:** To provide readily available high usage parts.

**PERFORMANCE STEPS:**

1. Obtain proper authorization for a PEB.
2. Determine who can approve items for the PEB.
3. Identify criteria for items placed in the PEB.
4. Identify accountability requirements.
5. Supervise the storage of items in the PEB.

**REFERENCES:**

1. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)

**MISCELLANEOUS:**

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

---

**3510-MAIN-2302:** Direct corrective maintenance requirements for motor transport equipment

**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: To maintain unit readiness.

PERFORMANCE STEPS:

1. Manage established corrective maintenance procedures.
2. Request overflow maintenance when conditions warrant.

REFERENCES:

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
- 

3510-MAIN-2303: Supervise validation of supply requirements

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 and outstanding supply requisitions.

STANDARD: To ensure supply requirements are obtained.

PERFORMANCE STEPS:

1. Supervise the daily validation process.
2. Supervise the biweekly validation process.
3. Determine commodity sections responsibilities.

REFERENCES:

1. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
  3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
  4. UM 4400-124 Sassy Using Unit Procedures
  5. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
- 

3510-MAIN-2304: Submit a Product Quality Deficiency Report (PQDR)

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 and an identified deficiency.

**STANDARD:** To ensure deficiencies are identified to supporting establishments.

**PERFORMANCE STEPS:**

1. Validate the need for a PQDR.
2. Draft a PQDR.

**REFERENCES:**

1. MCO 4855.10B Product Quality Deficiency Report (PQDR) (Jan 93)
  2. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
- 

**3510-MAIN-2305:** Supervise the processing of equipment through maintenance phases

**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, forms, records and a requirement.

**STANDARD:** To maintain unit readiness.

**PERFORMANCE STEPS:**

1. Direct maintenance requirements during the equipment acceptance phase.
2. Direct maintenance requirements during the equipment induction phase.
3. Direct maintenance requirements during the equipment active maintenance phase.
4. Direct maintenance requirements during the maintenance closeout phase.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
  4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
- 

**3510-MAIN-2306:** Manage tool control

**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, a requirement for monitoring the control of tool sets, chests, and kits.

**STANDARD:** To ensure cleanliness, serviceability and accountability.

**PERFORMANCE STEPS:**

1. Identify tool sets, chests, and kits (TSCK) authorized.
2. Enforce inventory procedures.
3. Inspect inventories records.
4. Validate tool sets, chests, and kits requisitions.
5. Determine control methods.
6. Enforce tool disposition procedures.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. ASL-3 Applicable Stock Listing -3
  4. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  5. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
- 

**3510-MAIN-2307:** Select motor transport equipment for 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:** To enhance unit equipment readiness.

**PERFORMANCE STEPS:**

1. Process equipment for Depot Level Maintenance Program (DLMP).
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).

**REFERENCES:**

1. MCO 4400.194 Class VII Stock Rotation Program
2. MCO 4790.18B Corrosion Prevention and Control (CPAC) Program (Jul 04)
3. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
4. MCO P4400.82 Regulated/Controlled Item Management Manual
5. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
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-2308:** Direct the reconciliation of supply requirements

**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 and outstanding supply requisitions.

**STANDARD:** To ensure supply requirements are obtained.

**PERFORMANCE STEPS:**

1. Identify procedures for the daily reconciliation process.
2. Identify procedures for the biweekly reconciliation process.
3. Determine commodity sections responsibilities.

**REFERENCES:**

1. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
  3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
  4. UM 4400-124 Sassy Using Unit Procedures
  5. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
- 

**3510-MAIN-2309:** Direct maintenance automated information system related functions

**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, forms, reports and equipment.

**STANDARD:** To maintain proper documentation of maintenance records.

**PERFORMANCE STEPS:**

1. Determine the use of output reports.
2. Audit output reports.
3. Establish equipment flow procedures.

**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 4400.16G Uniform Materiel Movement and Issue Priority System (Jun 85)
4. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
5. MCO P4790.1 MIMMS Introduction Manual
6. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
7. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
8. UM 4790-5 MIMMS-AIS Field Maintenance Procedures

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** This task has been selected as a DL candidate for sustainment training ONLY and will remain a formal event for MOS 3510 awarding.

---

**3510-MAIN-2310:** 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 Load Testing of USMC Lifting Equipment
  4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
- 

**3510-MAIN-2311:** 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 records.
2. Audit records.
3. Manage the disposition of 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 4400.16G Uniform Materiel Movement and Issue Priority System (Jun 85)
  9. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  10. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
  11. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
- 

**3510-MAIN-2312:** 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:** 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 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 3500.27B Operational Risk Management (ORM) (May 04)
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-MAIN-2313:** Establish a motor transport support requirements plan

**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 the references and a support mission.

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

**PERFORMANCE STEPS:**

1. Determine equipment requirements.
2. Determine personnel requirements.
3. Determine facilities requirements.
4. Determine tool sets, chests and kits requirements.
5. Determine publications requirements.
6. Determine repair parts requirements.
7. Determine Petroleum, Oil, and Lubricant (POL) requirements.
8. Determine funds requirements.
9. Prioritize requirements.

**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 P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
9. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
10. MCRP 4-11.3F Convoy Operations Handbook
11. MCRP 4-11.3H Multi-service Tactics, Techniques, and Procedures for Tactical Convoy Operations
12. MCTFSPRIUM Marine Corps Total Force System Personnel Reporting Instructions Users Manual
13. MCWP 4-1 Logistics Operations
14. MCWP 4-11 Tactical Level Logistics
15. MCWP 4-11.3 Transportation Operations
16. MCWP 4-11.4 Maintenance Operations

17. MCWP 5-1 Marine Corps Planning Process
  18. TM 11240-ODA Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment
- 

**3510-OPER-2401:** Conduct convoy commander duties

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** MOJT

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

**STANDARD:** To arrive 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. Organize the convoy in march order.
3. Review classifications for routes.
4. Determine defense requirements of a tactical convoy.
5. Determine convoy communication requirements.
6. Conduct a convoy mission brief.
7. Direct the movement of the convoy using navigational devices.
8. Conduct a post mission debrief.
9. Prepare a post mission After Action Report (AAR).

**RELATED EVENTS:**

3510-OPER-2402

3510-OPER-2406

3510-OPER-2404

**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 4-11.4 Recovery and Battlefield 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
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 Handbook for Ammunition,

- Explosives and Hazardous Materials
15. TM 09880C-OR Operator's Guide, DAGR Operator's Pocket Guide
  16. TM 11240-ODA Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment
- 

**3510-OPER-2402:** Prepare motor transport appendix to an operations order

**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 an operation order and a requirement.

**STANDARD:** To outline the requirements needed to support the mission.

**PERFORMANCE STEPS:**

1. Determine geographical area operation requirements.
2. Determine required logistics support.
3. Develop an appendix 4 to annex D.
4. Develop an appendix 12 to annex D.
5. 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
  8. MSTP PAM 4-0.1 Movement Control
- 

**3510-OPER-2403:** Establish 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:** 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 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.

**REFERENCES:**

1. FM 55-30 Army Motor Transport Units and Operations
2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
3. MCWP 4-11.4 Maintenance Operations

---

**3510-OPER-2404:** Supervise self-recovery 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:** MOJT

**CONDITION:** Provided with a vehicle, references, required tools, equipment and personnel.

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

**PERFORMANCE STEPS:**

1. Direct the eight step process.
2. Implement safety requirements.
3. Direct operations using anchors.
4. Direct operations using mechanical advantage.
5. Direct towing operations.

**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 4-11.4 Recovery and Battlefield Damage Assessment and Repair
-

**3510-OPER-2405:** Employ a vehicle recovery section

**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 a vehicle to be recovered, applicable references, and appropriate equipment.

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

**PERFORMANCE STEPS:**

1. Assess the operational situation.
2. Assign the mission.
3. Provide situational guidance.
4. Evaluate recovery efforts.
5. Report results, as required.

**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 4-11.4 Recovery and Battlefield Damage Assessment and Repair
- 

**3510-OPER-2406:** Direct maintenance functions in convoy 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 a proposed convoy composition, references, and the convoy route.

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

**PERFORMANCE STEPS:**

1. Review the convoy composition.
2. Review the convoy route.
3. Manage Limited Technical Inspections (LTI) on equipment.
4. Determine tools requirements.

5. Perform maintenance support requirements.
6. Provide equipment requirements.
7. Provide repair parts requirements.
8. Direct the performance of required maintenance.

**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. MCRP 4-11.4 Recovery and Battlefield Damage Assessment and Repair
8. MCWP 4-11.4 Maintenance Operations
9. TM 11240-ODA Principal Technical Characteristics of U.S. Marine Corps Motor Transport Equipment

---

**3510-OPER-2407:** Determine requirements for Maritime Preposition Force (MPF) operations

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3510

**GRADES:** CWO-3, CWO-4, CWO-5

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with equipment, references and operations plan.

**STANDARD:** To meet operational requirements.

**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.

---

**3510-OPER-2408:** Manage tactical movement using an automated information system

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3510

**GRADES:** CWO-3, CWO-4, CWO-5

**INITIAL TRAINING SETTING:** MOJT

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

**STANDARD:** To ensure proper utilization of personnel and equipment.

**PERFORMANCE STEPS:**

1. Maintain a database.
2. Manage transportation support assets.
3. Task a unit to support transportation missions.
4. Create a support request.
5. Organize asset availability by date and time.
6. Create convoys.
7. Build a convoy route.
8. Direct dispatching.
9. Manage convoys.
10. Generate reports.

**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
  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
- 

**3510-OPER-2409:** Direct camouflaging of motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3510

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

**INITIAL TRAINING SETTING:** MOJT

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

**STANDARD:** To obscure observation.

**PERFORMANCE STEPS:**

1. Determine factors of detection.
2. Perform counter detection techniques.
3. Apply methods of concealment.
4. Implement 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 Ultra light Weight Camo Net System
- 

**3510-OPER-2410:** 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:** To accomplish 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. JOINT PUB 3-02.2 Joint Doctrine for 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 P4030.36A Marine Corps Packaging Manual (Aug 94)
  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-ODA 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 (May 02)
-

MOTOR T T&R MANUAL

CHAPTER 5

MOS 3521 INDIVIDUAL EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE . . . . .	5000	5-2
EVENT CODING . . . . .	5001	5-2
INDEX OF EVENTS BY LEVEL. . . . .	5002	5-3
1000-LEVEL EVENTS . . . . .	5003	5-5
2000-LEVEL EVENTS . . . . .	5004	5-24

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**

1. Individual T&R events are coded for ease of reference. Each event has a 4-4-4-character identifier. The first four characters represent the MOS (3521).

2. The second up to four characters represent the functional or duty area. For example:

ADMN - Administration  
LIC - Licensing  
MAIN - Maintenance  
OPER - Operator  
TRNG - Training

See Appendix A for a complete list of functional areas.

3. The first of the last four characters represent the level (1000 or 2000) and the last three characters the sequence (1001, 2101) of the event. The Motor Transport Automotive Organizational Mechanic individual training events are separated into two levels:

1000 - Core Skills  
2000 - Core Plus Skills

5002. INDEX OF EVENTS BY LEVEL

EVENT	TITLE	PAGE
<b>1000-LEVEL EVENTS</b>		
3521-MAIN-1001	Conduct road test on motor transport tactical vehicle	5-5
3521-MAIN-1002	Demonstrate the proper use of tools	5-5
3521-MAIN-1003	Install automotive components with threaded fasteners	5-6
3521-MAIN-1004	Connect automotive components with tubing and tube fittings	5-6
3521-MAIN-1005	Perform electrical wiring repair	5-7
3521-MAIN-1006	Apply shop safety precautions	5-7
3521-MAIN-1007	Apply the proper vehicle lubricant	5-8
3521-MAIN-1008	Interpret automotive schematics	5-8
3521-MAIN-1009	Perform maintenance on the air induction system on motor transport equipment	5-9
3521-MAIN-1010	Perform maintenance on the exhaust system on motor transport equipment	5-9
3521-MAIN-1011	Perform maintenance on the cooling system on motor transport equipment	5-10
3521-MAIN-1012	Perform maintenance on the battery system on motor transport equipment	5-10
3521-MAIN-1013	Perform maintenance on the starting system on motor transport equipment	5-11
3521-MAIN-1014	Perform maintenance on the charging system on motor transport equipment	5-11
3521-MAIN-1015	Perform maintenance on the fuel system on motor transport equipment	5-12
3521-MAIN-1016	Perform maintenance on the transmission on motor transport equipment	5-12
3521-MAIN-1017	Perform maintenance on the transfer case on motor transport equipment	5-13
3521-MAIN-1018	Perform maintenance on the propeller shaft system on motor transport equipment	5-14
3521-MAIN-1019	Perform maintenance on the brake system on motor transport equipment	5-14
3521-MAIN-1020	Perform maintenance on the parking brake system on motor transport equipment	5-15
3521-MAIN-1021	Perform maintenance on the compressed air system on motor transport equipment	5-15
3521-MAIN-1022	Perform maintenance on the steering system on motor transport equipment	5-16
3521-MAIN-1023	Perform maintenance on the suspension system on motor transport equipment	5-16
3521-MAIN-1024	Perform maintenance on the chassis system on motor transport equipment	5-17
3521-MAIN-1025	Perform maintenance on the hydraulic system on motor transport equipment	5-17
3521-MAIN-1026	Perform maintenance on the Heating Ventilation/Air	5-18

	Conditioning (HVAC) system on motor transport equipment	
3521-MAIN-1027	Perform maintenance on the cold start system on motor transport equipment	5-19
3521-MAIN-1028	Perform maintenance on the engine on motor transport equipment	5-19
3521-MAIN-1029	Perform maintenance on the Central Tire Inflation System (CTIS) on motor transport equipment	5-20
3521-MAIN-1030	Perform maintenance on the axle system on motor transport equipment	5-20
3521-MAIN-1031	Perform maintenance on the electrical system on motor transport equipment	5-21
3521-MAIN-1032	Replace the engine on motor transport equipment	5-21
3521-MAIN-1033	Replace the transmission on motor transport equipment	5-22
3521-MAIN-1034	Perform Preventative Maintenance Checks and Services (PMCS) on motor transport equipment	5-22
3521-MAIN-1035	Perform maintenance on the fire suppression system	5-23
<b>2000-LEVEL EVENTS</b>		
3521-ADMN-2001	Perform Maintenance Automated Information System (MAIS) related functions	5-24
3521-ADMN-2002	Determine maintenance resources	5-24
3521-ADMN-2003	Process equipment through the maintenance phases	5-25
3521-ADMN-2004	Manage motor transport maintenance records	5-25
3521-ADMN-2005	Validate supply requirements	5-26
3521-ADMN-2006	Manage a publication library	5-27
3521-ADMN-2007	Maintain a section modification control program	5-27
3521-ADMN-2008	Maintain a section calibration control program	5-28
3521-ADMN-2009	Maintain a section Pre-Expended Bins (PEB)	5-29
3521-ADMN-2010	Research maintenance information	5-29
3521-ADMN-2011	Reconcile supply requirements	5-30
3521-ADMN-2012	Handle hazardous material	5-31
3521-ADMN-2013	Process equipment lubricants through the Joint Oil Analysis Program (JOAP)	5-32
3521-MAIN-2001	Perform a Limited Technical Inspection (LTI)	5-32
3521-MAIN-2002	Perform maintenance on low density equipment	5-33
3521-MAIN-2003	Perform maintenance on the Load Handling System (LHS) on motor transport equipment	5-33
3521-OPER-2001	Conduct emergency procedures on motor transport equipment	5-34

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 motor transport tactical vehicle and ERO.

STANDARD: Without injury to personnel or damage to equipment.

PERFORMANCE STEPS:

1. Obtain a valid OF 346.
2. Validate repairs.
3. Complete required records.

REFERENCES:

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

3521-MAIN-1002: Demonstrate the proper use of tools

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 ensure serviceability, accountability and cleanliness..

PERFORMANCE STEPS:

1. Identify specific tools.
2. Identify the intended purpose of specific tools.
3. Inventory the contents of a tool kit.
4. Demonstrate the proper use of TMDE.

REFERENCES:

1. SL 3-10025 Tool Kit, Common No. 1
  2. SL-3-00456A Components List for Tool Kit, Mechanics General
  3. TM 10209-10/1 Use and Care of Hand Tools and Measuring Tools
-

**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
- 

**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 plastic tubing to the tube fitting.
3. Connect steel tubing to the tube fitting.
4. Connect copper 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
-

**3521-MAIN-1005:** Perform electrical wiring repair

**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, supplies, safety equipment and references.

**STANDARD:** To return vehicle to a maintenance capable standard.

**PERFORMANCE STEPS:**

1. Perform soldering of electrical wiring.
2. Perform electrical connector repair.

**REFERENCES:**

1. TM 10209-10/1 Use and Care of Hand Tools and Measuring Tools
  2. TM 9-8000 PRINCIPLES OF AUTOMOTIVE VEHICLES
- 

**3521-MAIN-1006:** Apply shop safety precautions

**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, maintenance actions and references.

**STANDARD:** Without injury to personnel and damage to equipment.

**PERFORMANCE STEPS:**

1. Identify the safety equipment to be used as each task is performed.
2. Identify how to use safety equipment.

**REFERENCES:**

1. CFR 29 Code of Federal Regulations - Labor
2. MCO 3500.27B Operational Risk Management (ORM) (May 04)
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 a formal event until a DL product is produced.

---

**3521-MAIN-1007:** Apply the proper vehicle lubricant

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

**MOS PERFORMING:** 3521

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a lubrication requirement, environmental conditions, tools, equipment supplies and references.

**STANDARD:** Without injury to personnel or damage to equipment.

**PERFORMANCE STEPS:**

1. Identify the purpose of lubricants.
2. Identify the correct types of lubricants used in tactical motor vehicles.
3. Match the product grade to the product type.

**REFERENCES:**

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

**3521-MAIN-1008:** Interpret automotive schematics

**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, schematics and references.

**STANDARD:** To diagnosis faults and malfunctions.

**PERFORMANCE STEPS:**

1. Identify the symbols.
2. Trace an electrical circuit from origin to destination.
3. Trace the fuel path from origin to destination.
4. Trace the airflow from origin to destination.
5. Trace hydraulic flow from origin to destination.

**REFERENCES:**

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

**3521-MAIN-1009:** Perform maintenance on the air induction system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1010:** Perform maintenance on the exhaust system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1011:** Perform maintenance on the cooling system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1012:** Perform maintenance on the battery system on motor transport equipment

**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. Identify components of the battery system.
2. Inspect the battery system for serviceability.

3. Diagnose the cause of a malfunctioning battery system.
4. Repair unserviceable components of the battery system.
5. Replace unserviceable components of the battery system.
6. Test the battery system.

**REFERENCES:**

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

**3521-MAIN-1013:** Perform maintenance on the starting system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1014:** Perform maintenance on the charging system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1015:** Perform maintenance on the fuel system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1016:** Perform maintenance on the transmission on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1017:** Perform maintenance on the transfer case on motor transport equipment

**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. Identify components of the transfer case.
2. Inspect the transfer case for serviceability.
3. Diagnose the cause of a malfunctioning transfer case.
4. Repair unserviceable components of the transfer case.
5. Replace unserviceable components of the transfer case.
6. Test the transfer case.
7. Test the transfer case.

**REFERENCES:**

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

**3521-MAIN-1018:** Perform maintenance on the propeller shaft system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1019:** Perform maintenance on the brake system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1020:** Perform maintenance on the parking brake system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1021:** Perform maintenance on the compressed air system on motor transport equipment

**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. Identify components of the compressed air system.
2. Inspect the compressed air system for serviceability.

3. Diagnose the cause of a malfunctioning compressed air system.
4. Repair unserviceable components of the compressed air system.
5. Replace unserviceable components of the compressed air system.
6. Test the compressed air system.

**REFERENCES:**

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

**3521-MAIN-1022:** Perform maintenance on the steering system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1023:** Perform maintenance on the suspension system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1024:** Perform maintenance on the chassis system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1025:** Perform maintenance on the hydraulic system on motor transport equipment

**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
- 

**3521-MAIN-1026:** Perform maintenance on the Heating Ventilation/Air Conditioning (HVAC) system on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1027:** Perform maintenance on the engine cold start system on motor transport equipment

**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 and without deficiencies.

**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
- 

**3521-MAIN-1028:** Perform maintenance on the engine on motor transport equipment

**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 and without deficiencies.

**PERFORMANCE STEPS:**

1. Identify components of the engine.
2. Inspect the engine for serviceability.

3. Diagnose the cause of a malfunctioning engine.
4. Repair unserviceable components of the engine.
5. Replace unserviceable components of the engine.
6. Test the engine.

**REFERENCES:**

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

**3521-MAIN-1029:** Perform maintenance on the Central Tire Inflation System (CTIS) on motor transport equipment

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

**REFERENCES:**

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

**3521-MAIN-1030:** Perform maintenance on the axle system on motor transport equipment

**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 and without deficiencies.

**PERFORMANCE STEPS:**

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

**REFERENCES:**

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

**3521-MAIN-1031:** Perform maintenance on the electrical system on motor transport equipment

**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 and without deficiencies.

**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
- 

**3521-MAIN-1032:** Replace the engine on motor transport equipment

**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. Remove the engine.
2. Install replacement engine.
3. Inspect engine replacement procedures.
4. Inspect engine for serviceability.

**REFERENCES:**

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

**3521-MAIN-1033:** Replace the transmission on motor transport equipment

**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. Remove the transmission.
2. Replace the transmission.
3. Inspect transmission replacement procedures.
4. Inspect transmission for serviceability.

**REFERENCES:**

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

**3521-MAIN-1034:** Perform Preventive Maintenance Checks and Services (PMCS) on Motor Transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3531

**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. MCWP 4-11.4 Maintenance Operations
  8. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
- 

**3521-MAIN-1035:** Perform maintenance on the fire suppression 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 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
-

5004. 2000-LEVEL EVENTS

3521-ADMN-2001: Perform Maintenance Automated Information System (MAIS) related functions

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 3521

GRADES: CPL, SGT

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. Prepare MAIS input transactions.
3. Audit MAIS input transactions.
4. Determine the use of MAIS output reports.
5. Audit output reports.
6. Establish equipment flow procedures.

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 4400.16G Uniform Materiel Movement and Issue Priority System (Jun 85)
  4. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  5. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
  6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
  7. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
- 

3521-ADMN-2002: Determine maintenance resources

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 3521

GRADES: CPL, SGT

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 5311.1C Total Force Structure Process (TFSP) (Jan 99)
  2. MCO P1200.7 Military Occupational Specialties Manual
  3. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  4. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
  5. MCTFSPRIUM Marine Corps Total Force System Personnel Reporting Instructions Users Manual
- 

**3521-ADMN-2003:** Process equipment through the maintenance phases

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 6 months

**MOS PERFORMING:** 3521

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

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

**STANDARD:** To maintain unit readiness without injury to personnel or damage to equipment.

**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.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
  4. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
- 

**3521-ADMN-2004:** Manage motor transport maintenance records

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 6 months

**MOS PERFORMING:** 3521

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

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

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

**PERFORMANCE STEPS:**

1. Complete the records.
2. Audit the records.
3. Conduct the disposition.

**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 4400.16G Uniform Materiel Movement and Issue Priority System (Jun 85)
  9. MCO 4855.10B Product Quality Deficiency Report (PQDR) (Jan 93)
  10. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  11. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
  12. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
  13. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
- 

**3521-ADMN-2005:** Validate supply requirements

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 6 months

**MOS PERFORMING:** 3521

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given references, outstanding supply requisitions.

**STANDARD:** To ensure supply requirements are obtained.

**PERFORMANCE STEPS:**

1. Perform procedures for the daily validation process.
2. Perform procedures for the biweekly validation process.
3. Determine commodity sections responsibilities for validation.

**REFERENCES:**

1. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
  3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
  4. UM 4400-124 Sassy Using Unit Procedures
  5. UM 4790-5 MIMMS-AIS Field Maintenance Procedures
-

**3521-ADMN-2006:** Manage a publication library

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521

**BILLETS:** Publications NCO

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided with references, records, space requirements, personnel and support equipment.

**STANDARD:** To maintain a unit's operational capability and readiness.

**PERFORMANCE STEPS:**

1. Inspect the library.
2. Order deficient publications.
3. Conduct the maintenance of publications.
4. Perform validation requirements.
5. Perform reconciliation requirements.
6. Apply changes.

**REFERENCES:**

1. MCO 5215.1K Marine Corps Directives Management Program
2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
3. MCO P5215.17C The Marine Corps Technical Publications System (Jun 96)
4. MCO P5600.31G Marine Corps Publications and Printing Regulations (Sep 93)
5. NAVMC 2761 Catalog of Publications (Oct 07)
6. SL 1-2 Index of Authorized Publication for Equipment Support
7. SL 1-3 Index of Authorized Publications in Stock
8. UM-MCPDS 5605 Marine Corps Publications Distribution System
9. UM-PLMS Marine Corps Publications Library Management System (PLMS) Users Manual

**MISCELLANEOUS:**

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

---

**3521-ADMN-2007:** Maintain a section modification control program

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 6 months

**MOS PERFORMING:** 3521

**BILLETS:** Modification NCO

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

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

**STANDARD:** To meet safety and operational requirements or capabilities.

**PERFORMANCE STEPS:**

1. Identify modification instructions (MI) applicable to motor transport equipment.
2. Complete modification control records.
3. Audit modification control records.
4. Verify required modifications.
5. Determine the disposition of modification records.

**REFERENCES:**

1. AEMI Applicable Equipment Modification Instruction
2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
3. SL 1-2 Index of Authorized Publication for Equipment Support
4. SL 1-3 Index of Authorized Publications in Stock
5. TI 5600 Publication Information Marine Corps Equipment
6. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures
7. UM 4790-5 MIMMS-AIS Field Maintenance Procedures

**MISCELLANEOUS:**

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

---

**3521-ADMN-2008:** Maintain a section calibration control program

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521

**BILLETS:** Calibration NCO

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

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

**STANDARD:** To ensure equipment provides accurate test, measurement and diagnostic capabilities.

**PERFORMANCE STEPS:**

1. Identify unit Test Measurement and Diagnostic Equipment (TMDE).
2. Audit calibration control records.
3. Submit TMDE for calibration.
4. Conduct annual TMDE requirements.
5. Determine serviceability of TMDE.
6. Dispose of calibration records.



**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

**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 the publications.
4. Locate lubrication information for equipment.
5. Research information on repair parts.

**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

---

**3521-ADMN-2011:** Reconcile supply requirements

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 6 months

**MOS PERFORMING:** 3521

**BILLETS:** Layette NCO

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given outstanding requisitions and references.

**STANDARD:** To ensure supply requirements are obtained.

**PERFORMANCE STEPS:**

1. Perform procedures for the daily reconciliation process.
2. Perform procedures for the biweekly reconciliation process.
3. Determine commodity sections responsibilities for reconciliation.
4. Maintain a desk top procedure.

**REFERENCES:**

1. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
2. MCO P4790.2C MIMMS Field Procedures Manual (Jul 94)
3. TM 4700-15/1 Marine Corps Ground Equipment Record Procedures

4. UM 4400-124 Sassy Using Unit Procedures
5. UM 4790-5 MIMMS-AIS Field Maintenance Procedures

---

**3521-ADMN-2012:** Handle hazardous material

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 6 months

**MOS PERFORMING:** 3521

**BILLETS:** Hazardous Material NCO

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

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

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

**PERFORMANCE STEPS:**

1. Identify hazardous material.
2. Conduct the handling of hazardous materials.
3. 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 Handbook for Ammunition, Explosives and 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:** 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.

---

**3521-ADMN-2013:** Process equipment lubricants through the Joint Oil Analysis Program (JOAP)

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

**MOS PERFORMING:** 3521

**BILLETS:** JOAP NCO

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** MOJT

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

**STANDARD:** To enhance unit readiness and reduce damage to equipment components.

**PERFORMANCE STEPS:**

1. Determine equipment affected by JOAP.
2. Obtain oil samples.
3. Process oil samples.
4. Maintain records used for JOAP.
5. Maintain desk top procedures.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
  2. AIETM Applicable Interactive Electronic Technical Manual
  3. MCO 4731.1A Oil Analysis Program for Ground Equipment (Nov 90)
  4. MCO P4400.150E Consumer-Level Supply Policy Manual (Jun 99)
  5. TI 4731-14/1 Marine Corps Participation in the Joint Oil Analysis Program
  6. TM 9-2300-422-23&P Army Oil Analysis Sampling Values Army Oil Analysis
- 

**3521-MAIN-2001:** Perform a Limited Technical Inspection (LTI)

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

**3521-MAIN-2002:** Perform maintenance on low density equipment

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

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given a low density item, tools, shop supplies, repair parts and references.

**STANDARD:** To maintain unit readiness.

**PERFORMANCE STEPS:**

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

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** The formal learning center will provide training on the following low density items: MRAP FoVs, FRC, MK970, IFAV, ITV/LSV, and MILMO. Low density is defined as 1,000 (+/-) of a PEI within the community requiring specialized training.

---

**3521-MAIN-2003:** Perform maintenance on the Load Handling System (LHS) on motor transport equipment

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

**MOS PERFORMING:** 3521

**GRADES:** CPL, SGT

**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

---

**3521-OPER-2001:** Conduct emergency procedures on motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3521

**GRADES:** CPL, SGT

**INITIAL TRAINING SETTING:** FORMAL

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

**STANDARD:** To safely meet operational requirement without further damage to equipment or injury to personnel.

**PERFORMANCE STEPS:**

1. Perform limp home procedures.
2. Perform fan clutch override procedures.
3. Perform air cleaning service procedures.
4. Replace flat tire on M series vehicle.
5. Perform slave start procedures.
6. Perform brake caging procedures.
7. Perform manual drive line lock procedures.
8. Perform flat-tow of another vehicle.

**REFERENCES:**

1. AETM Applicable Equipment Technical Manuals
2. AIETM Applicable Interactive Electronic Technical Manual
3. MCRP 4-11.3F Convoy Operations Handbook

**MISCELLANEOUS:**

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

---

MOTOR T T&R MANUAL

CHAPTER 6

MOS 3522 INDIVIDUAL EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE . . . . .	6000	6-2
EVENT CODING . . . . .	6001	6-2
INDEX OF IEVENTS BY LEVEL . . . . .	6002	6-3
2000-LEVEL EVENTS . . . . .	6003	6-4

MOTOR T T&R MANUAL

CHAPTER 6

MOS 3522 INDIVIDUAL EVENTS

**6000. PURPOSE.** This chapter includes all individual events for the Automotive Intermediate 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**

1. Individual T&R events are coded for ease of reference. Each event has a 4-4-4-character identifier. The first four characters represent the MOS (3522).

2. The second up to four characters represent the functional or duty area. For example:

ADMN - Administration  
LIC - Licensing  
MAIN - Maintenance  
OPER - Operator  
TRNG - Training

See Appendix A for a complete list of functional areas.

3. The first of the last four characters represent the level (1000 or 2000) and the last three characters the sequence (1001, 2101) of the event. The Motor Transport Automotive Intermediate Mechanic individual training events are 2000 level:

2000 - Core Plus Skills

6002. INDEX OF EVENTS BY LEVEL

EVENT	TITLE	PAGE
	<b>2000-LEVEL INDIVIDUAL EVENTS</b>	
3522-MAIN-2001	Repair engines commonly found in tactical equipment	6-4
3522-MAIN-2002	Repair transmissions commonly found in motor transport equipment	6-4
3522-MAIN-2003	Repair transfers commonly found in motor transport equipment	6-5
3522-MAIN-2004	Repair geared hubs on motor transport equipment	6-5
3522-MAIN-2005	Repair axle/differential assemblies on motor transport equipment	6-6
3522-MAIN-2006	Repair winches on motor transport equipment	6-6
3522-MAIN-2007	Repair hydraulic system components on motor transport equipment	6-7
3522-MAIN-2008	Repair steering system components on motor transport equipment	6-7

6003. 2000-LEVEL EVENTS

3522-MAIN-2001: Repair engines commonly found in tactical equipment

EVALUATION-CODED: YES

SUSTAINMENT INTERVAL: 12 months

INITIAL TRAINING SETTING:

CONDITION: Provided with faulty engines, 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.
- 

3522-MAIN-2002: Repair transmissions commonly found in motor transport equipment

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 3522

GRADES: LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Provided with faulty transmissions, 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
-

**3522-MAIN-2003:** Repair transfers commonly found in motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3522

**GRADES:** LCPL, CPL, SGT

**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
- 

**3522-MAIN-2004:** Repair geared hubs on motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3522

**GRADES:** LCPL, CPL, SGT

**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
-

**3522-MAIN-2005:** Repair axle/differential assemblies on motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3522

**GRADES:** LCPL, CPL, SGT

**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
- 

**3522-MAIN-2006:** Repair winches on motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3522

**GRADES:** LCPL, CPL, SGT

**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
-

**3522-MAIN-2007:** Repair hydraulic system components on motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3522

**GRADES:** LCPL, CPL, SGT

**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
- 

**3522-MAIN-2008:** Repair steering system components on motor transport equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 3522

**GRADES:** LCPL, CPL, SGT

**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
-

MOTOR T T&R MANUAL

CHAPTER 7

MOS 3524 INDIVIDUAL EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE . . . . .	7000	7-2
EVENT CODING . . . . .	7001	7-2
INDEX OF EVENTS BY LEVEL. . . . .	7002	7-3
2000-LEVEL EVENTS . . . . .	7003	7-4

MOTOR T T&R MANUAL

CHAPTER 7

MOS 3524 INDIVIDUAL EVENTS

**7000. 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.

**7001. EVENT CODING**

1. Individual T&R events are coded for ease of reference. Each event has a 4-4-4-character identifier. The first four characters represent the MOS (3510).
2. The second up to four characters represent the functional or duty area. For example:

ADMN - Administration  
LIC - Licensing  
MAIN - Maintenance  
OPER - Operator  
TRNG - Training

See Appendix A for a complete list of functional areas.

3. The first of the last four characters represent the level (1000 or 2000) and the last three characters the sequence (1001, 2101) of the event. The Motor Transport Fuel and Electrical Systems Mechanic individual training events are 2000 level:

2000 - Core Plus Skills

7002. INDEX OF EVENTS BY LEVEL

EVENT	TITLE	PAGE
	2000-LEVEL EVENTS	
3524-MAIN-2001	Perform maintenance on fuel system test equipment	7-4
3524-MAIN-2002	Perform maintenance on Alternator/Generator/Regulator and Starter test stand (AGRS)	7-4
3524-MAIN-2003	Repair a turbocharger	7-5
3524-MAIN-2004	Repair a blower	7-5
3524-MAIN-2005	Repair a starter	7-6
3524-MAIN-2006	Repair a generator	7-6
3524-MAIN-2007	Conduct test on voltage regulator	7-7
3524-MAIN-2008	Repair an alternator	7-7
3524-MAIN-2009	Repair personnel heater	7-8
3524-MAIN-2010	Repair a nozzle	7-8
3524-MAIN-2011	Repair an injector	7-9
3524-MAIN-2012	Repair a fuel pump	7-10
3524-MAIN-2013	Repair a fuel injection pump	7-10

7003. 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

---

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.

NAVMC 3500.39A  
17 Aug 2010

**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
-

MOTOR T T&R MANUAL

CHAPTER 8

MOS 3526 INDIVIDUAL EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE . . . . .	8000	8-2
EVENT CODING . . . . .	8001	8-2
INDEX OF EVENTS BY LEVEL. . . . .	8002	8-3
2000-LEVEL EVENTS . . . . .	8003	8-4

MOTOR T T&R MANUAL

CHAPTER 8

MOS 3526 INDIVIDUAL EVENTS

**8000. 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.

**8001. EVENT CODING**

1. Individual T&R events are coded for ease of reference. Each event has a 4-4-4-character identifier. The first four characters represent the MOS (3526).

2. The second up to four characters represent the functional or duty area. For example:

ADMN - Administration  
LIC - Licensing  
MAIN - Maintenance  
OPER - Operator  
TRNG - Training

See Appendix A for a complete list of functional areas.

3. The first of the last four characters represent the level (1000 or 2000) and the last three characters the sequence (1001, 2101) of the event. The Motor Transport Crash/Fire/Rescue Vehicle Mechanic individual training events are 2000 level:

2000 - Core Plus Skills

8002. INDEX OF EVENTS BY LEVEL

EVENT	TITLE	PAGE
	<b>2000-LEVEL EVENTS</b>	
3526-MAIN-2001	Operate the truck firefighting system	8-4
3526-MAIN-2002	Perform Preventive Maintenance Checks and Services (PMCS)	8-4
3526-MAIN-2003	Operate the truck in conjunction with road testing	8-5
3526-MAIN-2004	Operate the structural panel	8-5
3526-MAIN-2005	Perform maintenance on the wiring/lighting system	8-6
3526-MAIN-2006	Perform maintenance on the cranking system	8-6
3526-MAIN-2007	Perform maintenance on the charging system	8-7
3526-MAIN-2008	Perform maintenance on the air induction system	8-7
3526-MAIN-2009	Perform maintenance on the compressed air brake system	8-8
3526-MAIN-2010	Perform maintenance on the exhaust system	8-8
3526-MAIN-2011	Perform maintenance on the fuel system	8-9
3526-MAIN-2012	Perform maintenance on the cold start system	8-9
3526-MAIN-2013	Perform maintenance on the hub assemblies	8-10
3526-MAIN-2014	Perform maintenance on the drive train	8-10
3526-MAIN-2015	Perform maintenance on the cooling system	8-11
3526-MAIN-2016	Perform maintenance on the suspension system	8-11
3526-MAIN-2017	Perform maintenance on the tire/wheel assembly	8-12
3526-MAIN-2018	Perform maintenance on the fire fighting systems	8-12
3526-MAIN-2019	Perform maintenance on the steering system	8-13
3526-MAIN-2020	Repair firefighting system components	8-13
3526-MAIN-2021	Perform scheduled Preventive maintenance Checks and Services (PMCS)	8-14
3526-MAIN-2022	Perform maintenance on the winterization system	8-14
3526-MAIN-2023	Perform maintenance on the agent delivery system	8-15
3526-MAIN-2024	Perform maintenance on the structural panel	8-15
3526-MAIN-2025	Perform maintenance on the power divider	8-16
3526-MAIN-2026	Perform maintenance on the water delivery pump	8-16
3526-MAIN-2027	Perform maintenance on the water pump assembly	8-17

8003. 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
- 

**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
- 

**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