

LAR T&R MANUAL

CHAPTER 8

1000-LEVEL INDIVIDUAL EVENTS

	<u>PARAGRAPH</u>	<u>PAGE</u>
PURPOSE. . . . .	8000	8-2
EVENT CODING . . . . .	8001	8-2
BILLET DESCRIPTION/CORE CAPABILITIES . . . . .	8002	8-2
INDEX OF 1000-LEVEL EVENTS . . . . .	8003	8-11
1000-LEVEL EVENTS. . . . .	8004	8-12

LAR T&R MANUAL

CHAPTER 8

1000-LEVEL INDIVIDUAL EVENTS

**8000. PURPOSE.** This chapter details the individual events that pertain to the LAR MOS. These events are linked to a service-level Mission Essential Tasks (MET). This linkage tailor's individual training for the selected MET. Each individual event provides an event title, along with the conditions events will be performed under, and the standard to which the event must be performed to be successful.

**8001. EVENT CODING.** Events in this T&R Manual are depicted with an up to 12-character, 3-field alphanumeric system, i.e. XXXX-XXXX-XXXX. This chapter utilizes the following methodology.

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

<u>Code</u>	<u>Description</u>
0313	LAV Crewman

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

<u>Code</u>	<u>Description</u>
COAX	Coaxially
COMM	Communications
M240	Medium Machinegun
M242	25mm Automatic gun
M257	Smoke Grenade launcher
MOBL	Mobile
PMCS	Preventive Maintenance Checks and Services

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

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

**8002. BILLET DESCRIPTIONS/CORE CAPABILITIES**

**LAR CAREER PROGRESSION AND ENLISTED BILLETS**

LAV Crewmen will complete the Basic Infantryman Course conducted at School of Infantry (East), Camp Lejeune, NC or School of Infantry (West), Camp Pendleton, CA. Upon completion of the Basic Infantryman Course, they will

attend the Light Armored Vehicle Crewman's Course (M10H2F2), School of Infantry, Camp Pendleton, CA.

The LAV Crewman will conduct additional 2000-level training at a Light Armored Reconnaissance unit in a variety of billets. 2000-level training will continue through completion of Career, Intermediate, and Advanced Level Professional Military Education (PME), available through resident, seminar and distance learning courses.

LAR Non-Commissioned Officers will attend the Light Armored Vehicle Commander Course (M10H3V2) for MOS enhancement and to complete required career progression.

LAR Staff Non-Commissioned Officers will attend the Light Armored Vehicle Leader's Course (M103W2) for MOS enhancement and to complete required career progression.

Qualified LAR Staff Non-Commissioned Officers will attend the LAR Master Gunner Course (M10H212) for MOS enhancement and to complete required career progression.

All 0311, 0369, and non-03XX billets organic to an LAR Bn will find their T&R tasks in their respective MOS T&R Manuals which includes career and MOS progression. These tasks will be incorporated into the LAR Battalion Annual Training Plan to support the LAR mission and commander's intent.

**BILLET:** Crewman 0313 LAV Driver

**Core Capabilities:**

1. Executes commands related to employment and function of the Family of LAVs (FOLAV).
2. Drive the LAV over varied terrain and conditions, and operating the LAV in water.
3. Assists in the performance of vehicle PMCS IAW published TM 08594\_-10/2 (LAV Hull) and TM 08594C-10/1\_ (LAV 25 Turret).
4. Operates vehicle communication system utilizing proper procedures.
5. Assists gunner in reloading the weapons station.
6. Assists the LAV 25 crew in the target acquisition process.

**BILLET:** Crewman 0313 LAV-25 Gunner

**Core Capabilities:**

1. Executes commands related to employment and function of the LAV 25 weapon systems.
2. Perform PMCS IAW TM 08594\_-10/2 (LAV Hull) and TM 08594C-10/1\_ (LAV 25 Turret).
3. Operates vehicle turret and sighting system.
4. Conducts a LAV Gunner Skills Test to standard IAW MCWP 3-14.1.
5. Acquires and engages targets with LAV 25 weapon systems.
6. Operates vehicle communication systems utilizing proper procedures.

7. Assumes the duties of the LAV Vehicle Commander in his absence.

**BILLET: Crewman 0313 LAV, Vehicle Commander**

**Core Capabilities:**

1. Responsible for the maintenance readiness and operation of the FoV.
2. Responsible for the doctrinal employment and command and control of assigned LAV.
3. Responsible for the accountability of all associated personnel and equipment.
4. Conducts a LAV Gunner Skills Test to standard IAW MCWP 3-14.1.
5. Responsible for the performance of PMCS IAW TM 08594\_-10/2 (LAV Hull) and TM 08594C-10/1\_ (LAV 25 Turret).
6. Responsible for the maintenance of associated vehicle records and logbooks.
7. Commands the employment and function of his assigned LAV's crew, scout team, and weapons systems.
8. Responsible for target acquisition and engagement of his LAV.
9. Operates vehicle communication systems utilizing proper procedures.
10. Responsible for requisite combat reporting to appropriate agencies.
11. As required conduct the coordination of supporting arms.
12. Possesses the requisite knowledge in doctrinal LAR platoon/company tactics, techniques, and procedures.
13. Responsible for the training, discipline, welfare, and readiness of subordinate crew members placed under his charge.

**BILLET: Crewman 0313 LAR Platoon Sergeant** The platoon sergeant is second in command of the LAR platoon. He is responsible for maintaining the platoon's vehicles and all associated gear. He advises the LAR platoon commander on the tactical employment, training, welfare, and administrative functions of the platoon. He is also responsible for the doctrinal employment of his section of LAVs.

**Core Capabilities:**

1. Maintains the welfare, accountability, and discipline of the platoon.
2. Supervise all maintenance management functions for the LAR platoon.
3. Requests and coordinates the logistical support of the platoon.
4. Reconciles vehicle maintenance and parts on order per the platoon DPR.
5. Advises the LAR platoon commander in the doctrinal tactical employment of the platoon.
6. Advises the platoon commander in the coordination and implementation of supporting arms.
7. Requisitions and supervises the distribution of classes of supply in support of platoon operations.
8. Employs his vehicle's weapon systems and communications system.
9. Conducts platoon level combat reporting to appropriate agencies.
10. Trains the platoon in the performance of tasks which support platoon training objectives.
11. Controls the employment of his vehicle and section.

12. Assumes command of the platoon in the platoon commander's absence.
13. Coordinates embarkation of vehicles and unit.
14. Coordinates all recovery and evacuation operations.

**BILLET: Crewman 0313 LAR Company Operations Chief** The company operations chief carries out the orders of the company commander. He performs the tasks required of the operations chief in the company. The company operations chief serves as the senior enlisted technical and tactical advisor to the company commander. He advises the company commander on the discipline, appearance, control, conduct, and welfare of the company. He trains the company in the performance of tasks which support assigned training objectives. He advises the company commander on the condition, care, and economical use of company resources and equipment. He coordinates and supervises the embarkation and debarkation for deployment of the Company. Company operations chief advises and makes recommendations for the development of the fire support plan.

**Core Capabilities:**

1. Carries out the orders of the company commander.
2. Serves as the senior enlisted technical and tactical advisor to the company.
3. Assists the Executive Officer in the development and execution of the company training plan.
4. Conducts planning, coordination, and execution of fire support requirements.
5. Coordinates and supervises the embarkation and accountability of company equipment by updating company equipment density lists, consolidated memorandum record (CMR), and embarked equipment.
6. Responsible for the operation of the company level operations center (CLOC) and company level intelligence cell (CLIC)
7. Coordinates and executes operational and logistical support requirements for the company.
8. Manage C2 systems within the CLIC, CLOC.
9. Coordinates daily operations and execution of the company training plan.
10. Reconciles vehicle maintenance and parts on order per the company DPR.
11. Coordinates with battalion operations chief all 0313 (LAV crewman) training requirements.

**BILLET: Crewman 0313 LAR Company Master Gunner** The Company Master Gunner is the chief duty expert, and advisor to the company commander on all things related to LAV-25 gunnery, employment, and maintenance. The Master Gunner is responsible to the commander for the readiness, proficiency, and qualification of the Marines and the unit as it relates to LAV gunnery.

**Core Capabilities:**

1. Implements and supervises the unit gunnery training plan IAW the BN/Company training plans, and MCWP 3-14.1.
2. Supervises the instruction of the Marines in gunnery related classes and training exercises.

3. Provides recommendations to the BN Master Gunner WRT screening of potential LCEs within the company.
4. Creates and recommends modifications to Surface Danger Zones (SDZs) IOT conduct safe training.
5. Understands and implements sound Operational Risk Management procedures related to training events.
6. Records and maintains training records per the Unit Training Management (UTM) process, and MCWP 3-14.1.
7. Assists the battalion Master Gunner in the evaluation and qualification where necessary.

**BILLET: Crewman 0313 LAV Crew Evaluator** The LAV Crew Evaluator (LCE) serves as an instructor during training and as an evaluator during qualifications. LAV-25 Crew Evaluators (LCEs) must be used by the training unit to evaluate all aspects of gunnery. LCEs are used extensively in establishing and operating gunnery training and in evaluating crew proficiency in both individual skills and crew duties.

**Core Capabilities:**

1. Understand all techniques and procedures related to gunnery training exercises.
2. Trains and evaluates the company on the use of gunnery training devices.
3. Serves as an instructor during LAV 25 gunnery training events during the conduct of the initial gunnery and sustainment training IAW 3-14.1
4. Performs the duties of an evaluator during qualification events for intermediate and advanced gunnery training IAW 3-14.1.
5. Records training and qualification information on appropriate score sheets and crew records.

**BILLET: Crewman 0313 LAR Battalion Master Gunner** The battalion Master Gunner is the subject matter expert, and advisor to the battalion commander on all things related to LAV-25 gunnery, employment, and maintenance. The Master Gunner is responsible to the commander for the readiness, proficiency, and qualification of the Marines and the unit as it relates to LAV gunnery. Additionally, the Bn Master gunner is responsible for the training and development of the company master gunners and battalion LAV crew evaluators.

**Core Capabilities:**

1. Develops and supervises the unit gunnery training plan IAW the BN training plans, and MCWP 3-14.1.
2. Supervises the instruction of the Marines in gunnery related classes and training exercises.
3. Conducts training IOT qualify the battalions LCEs.
4. Creates and recommends modifications to Surface Danger Zones (SDZs) IOT conduct safe training.
5. Understands and implements sound Operational Risk Management procedures related to training events.
6. Records and maintains training records per the Unit Training Management (UTM) process, and MCWP 3-14.1.

7. Advises the commander on all LAV 25 gunnery training across initial, intermediate, and advanced/sustainment gunnery IAW 3-14.1.
8. Manage allocation and distribution of the battalions 25mm ammunition.
9. Acts and serves as a member of the battalion's operations section.
10. Identify and recommend potential future master gunner candidates.
11. Responsible for the training and development of the company master gunners and the BNs LCEs.

**BILLET: Crewman 0313 Battalion Logistics Chief** The LAR logistics chief performs the tasks required of an operations chief within the Administrative logistics center (ALOC) for the LAR battalion. He serves as the senior enlisted logistics advisor to the battalion commander and the senior enlisted advisor to the battalion logistics officer. He advises the battalion logistics officer on the discipline, appearance, control, conduct, and welfare of the battalion logistics section. He supervises the logistics section in the performance of tasks which support assigned training objectives. He coordinates and supervises the embarkation and debarkation of the battalion. He coordinates and supervises all aspects of the ALOC. He assists the logistics officer in the training of ALOC watch officers. He assists in the development of appropriate components of an operations order. He supervises the timely submission of messages and logistics reports. He assists in the preparation of briefs in support of the logistics section. He assists the logistics officer with the development of the unit's concept of logistical support. He assists with the collection, review, and distribution of training support requests, logistical support requests, training schedules and letters of instruction in support of the unit's training plan. Additionally, the battalion logistics chief coordinates all cross boundary coordination during resupply operations.

**Core Capabilities:**

1. Supervise command control and planning for all logistical requests within the battalion.
2. Supervise daily support requirements for the maneuver elements within the battalion.
3. Facilitate all training requirements for all commodities within the logistics section.
4. Receive and track daily forecasts of all classes of supply to the battalion.
5. Source and coordinate all logistical movements.
6. Monitor all requests from subordinate elements ensuring requests are received and processed by the appropriate supporting element.
7. Prioritize equipment load plans to ensure early initial operational capability upon arrival at the port of debarkation or tactical assembly area.
8. Review and update logistical plan to facilitate future operations.
9. Conduct cross boundary coordination as required.

**BILLET: Crewman 0313 Battalion Operations Chief** The LAR operations chief serves as the senior enlisted tactical advisor to the battalion commander and senior enlisted advisor to the battalion operations officer. He advises the battalion operations officer on the discipline, appearance, control, conduct, and welfare of the battalion operations section. He trains his operation

section in the performance of tasks which support assigned training objectives. He coordinates and supervises the embarkation and debarkation of the battalion operations section. He coordinates and supervises all aspects of the combat operations center. He assists the operations officer in the training of watch officers. He compiles the components of an operations order for distribution to subordinate units. He supervises the timely submission of messages and reports. He assists in the preparation of briefs in support of the operations section. He maintains the operations section's publication library. He assists the operations officer with the development of the unit's training plan. He assists with the collection, review, and distribution of training schedules and letters of instruction in support of the unit's training plan.

**Core Capabilities:**

1. Serves as the senior enlisted tactical and technical advisor to the commander and operations officers.
2. Assists the commander and operations officers on the discipline, appearance, training, control, conduct, and welfare of the S-3 section.
3. As senior 0313 in the battalion he is charged with mentorship and development of the 0313 SNCO population within the battalion.
4. Coordinates and supervises the embarkation and debarkation of the operations section.
5. Coordinates and supervises the set-up and displacement of the Combat Operations Center as well as the training and employment of C4I systems.
6. Supervises the actions of all personnel within the COC.
7. Supervises and controls section's CMR and funding.
8. Manages the flow of information provided through available C4I systems.
9. Supervises the control, dissemination and destruction of classified information within the operations section.
10. Supervise preparation of the operational journal and journal file.
11. Establishes the watch bill for the Combat Operations Center.
12. Assembles and distributes operations orders.
13. Supervises the preparation and submission of messages, briefs, and reports.
14. Supervises the maintenance of the operations sections war fighting and training publication library.
15. Maintains the unit's training records.
16. Assists the operations officer with the development of the unit's training plan.
17. Prepares training schedules and letters of instruction.
18. Supervises the request of ranges and training areas.
19. Assists the commander in the tactical employment of the organic weapons systems for the unit.

---

**LAR OFFICER BILLETS**

Infantry Officers, assigned to LAR units will complete the Infantry Officer Course conducted at Weapons Training Battalion, Quantico, VA. They will then complete the Light Armored Vehicle Leader's Course (M10H3W2) in order to attain the AMOS 0303.



**BILLET: LAR Leader 0303 Platoon Commander** The LAR Platoon Commander carries out the orders of the LAR company commander. He is proficient with all T/O weapons within his platoon. He is responsible for training his unit to perform METs assigned by his company commander's METLs. He is responsible for deployment and tactical employment of his platoon. He is responsible for the discipline, morale, and welfare of his platoon. He is responsible for assisting the platoon sergeant in reconciling vehicle maintenance and parts on order per the platoon DPR.

**Core Capabilities:**

1. Responsible for the tactical employment of a Light Armored Reconnaissance Platoon.
2. Develop and implement short and mid range training plan in accordance with the company commander's guidance, battalion METL, and the LAR T&R Manual in order to ensure the combat readiness of the platoon.
3. Train and qualify all members of the LAR Platoon.
4. Implement and supervise a maintenance plan with focus on 1st and 2nd echelon maintenance.
5. Reconciles vehicle maintenance and parts on order per the platoon DPR.
6. Critique and validate support requirements

**BILLET: LAR Leader 0303 Company Executive Officer** The LAR Company Executive Officer carries out the orders of the Company Commander and serves as Company Commander in his absence. He ensures each MET of the Company Commander's METL is safely and properly satisfied. He is proficient with all T/O weapons in the company. He acts as platoon commander for all company headquarters personnel. He assists the commander to deploy and tactical employ the unit. He is responsible for assisting the company commander and company operations chief in reconciling vehicle maintenance and parts on order per the company DPR.

**Core Capabilities:**

1. Assume command in commander's absence.
2. Make operational planning recommendations to the Company Commander.
3. Develop a 5-paragraph operations order to support accomplishment of the company's tactical mission.
4. Prepare a map overlay.
5. Prepare company reports and briefs.
6. Proficient in use and employment of all weapons organic to an LAR company.
7. Utilize smoke grenades and pyrotechnics for signaling, illumination, and screening.
8. Navigate to designated points using a topographic map, lensatic compass, protractor, and global positioning equipment.
9. Perform self-aid and buddy aid.
10. Assume mission oriented protective posture against the effects of chemical and biological agents.
11. Communicate using proper communications procedures.
12. Call for indirect fire.
13. Request close air support.
14. Integrate supporting fires in accomplishment of an assigned mission.
15. Proficient in Helicopter Landing Zone (HLZ) procedures.

16. Support the company in tactical operations as part of an LAR battalion.
17. Proficient marksman with T/O weapon.
18. Assists the Commanding Officer in reconciling vehicle maintenance and parts on order per the company DPR.

**BILLET: LAR Leader 0303 Company Commander** The LAR Company Commander carries out the orders of the Battalion Commander. He is responsible for training and employment of his unit. He is responsible for the discipline, morale, and welfare of his unit. He is responsible for equipment and material readiness. He is responsible for reconciling vehicle maintenance and parts on order per the company DPR.

**Core Capabilities:**

1. Responsible for the tactical employment of a Light Armored Reconnaissance Company
2. Develop and implement short and mid range training plan in accordance with the battalion commander's guidance, battalion METLS, and the LAR T&R in order to ensure the combat readiness of the company
3. Train and qualify all members of the LAR Company
4. Implement and supervise a maintenance plan with focus on 1st and 2nd echelon maintenance.
5. Critique and validate support requirements.

**BILLET: LAR Leader 0303 Battalion Operations Officer**

**Core Capabilities:**

1. Responsible for the planning, coordination, and C2 for all operations conducted by the battalion
2. Responsible to the commander for battle tracking all subordinate units and conduct coordinating with adjacent units as required.
3. Responsible for the functioning and employment of the battalion's main combat operations center, and the employment of the commands forward command post. Responsible for the development and implementation of the commanders and higher headquarters directive.
4. Responsible for the coordination and conduct of the battalion staff planning in accordance with the commander's intent.
5. Responsible for ensuring all battalion subordinate units are in compliance with the directed training requirements and submission of require reports.
6. Responsible for coordination of reporting to higher headquarters.
7. Supervises all commodities and special staff organic to the Operations Shop.

**BILLET: LAR Leader 0303 Battalion Executive Officer** The LAR Battalion Executive Officer carries out the orders of the Battalion Commanding Officer. He serves in the role of Commander in his absence.

**Core Capabilities:**

1. Second in command, assumes command in commander's absence.

2. Coordinate all action of the battalion staff.
3. Supervise staff planning process.
4. Supervise operation of the main echelon.
5. Ensures battalion reports are made as required to higher and adjacent commanders.
6. Supervise planning of future operations.
7. Maintain awareness of all information flow to Battalion Commander.
8. Proficient marksman with T/O weapon.

**BILLET: LAR Leader 0303 Battalion Commanding Officer** The LAR Battalion Commanding Officer carries out the orders of the Commanding Officer of the Division Commanding General or Commanding Officer, higher supported command. He is responsible for deployment and tactical employment of his unit. He is responsible for the discipline, morale, and welfare of his unit.

**Core Capabilities:**

1. Responsible for effective command and control of a battalion.
2. Disseminate guidance and intent to subordinate commanders.
3. Train the battalion in the performance of tasks that support mission objectives.
4. Maintain the welfare and discipline of a battalion.
5. Proficient marksman with T/O weapon.

**8003. INDEX OF INDIVIDUAL EVENTS**

EVENT CODE	EVENT	PAGE
<b>1000-LEVEL</b>		
<b>COAXIAL</b>		
0313-COAX-1001	Perform Preventive Maintenance Checks and Services (PMCS) on an M240 coaxially-mounted machine gun	8-12
0313-COAX-1002	Load the M240 7.62mm coaxially-mounted machinegun	8-13
0313-COAX-1003	Unload the M240 7.62mm coaxially-mounted machinegun	8-14
0313-COAX-1004	Boresight the M240 7.62mm coaxially-mounted machinegun	8-14
0313-COAX-1005	Zero the M240 7.62mm coaxially-mounted machinegun	8-15
0313-COAX-1006	Engage targets with an M240 7.62mm coaxially mounted machinegun	8-16
0313-COAX-1007	Perform immediate action procedures for an M240 7.62mm machinegun	8-16
<b>COMMUNICATION</b>		
0313-COMM-1001	Communicate using LAV intercom equipment	8-17
0313-COMM-1002	Communicate using a single channel radio set	8-18
<b>MEDIUM MACHINE GUN</b>		
0313-M240-1001	Perform Preventive Maintenance Checks and Services (PMCS) on an M240B pintleswing-mounted machinegun	8-18
0313-M240-1002	Load the M240 variant 7.62mm pintleswing-mounted machinegun	8-19

0313-M240-1003	Unload the M240 variant 7.62mm pintleswing-mounted machinegun	8-19
<b>25MM AUTOMATIC GUN</b>		
0313-M242-1001	Perform Preventive Maintenance Checks and Services (PMCS) on an M242 25mm automatic gun	8-20
0313-M242-1002	Load the M242 25mm automatic gun	8-21
0313-M242-1003	Unload the M242 25mm automatic gun	8-22
0313-M242-1006	Engage targets with an M242 25mm automatic gun	8-22
0313-M242-1007	Perform immediate action procedures for an M242 25mm automatic gun	8-23
<b>SMOKE GERADE LAUNCHER</b>		
0313-M257-1001	Perform Preventive Maintenance Checks and Services (PMCS) on an M257 smoke grenade launcher	8-24
0313-M257-1002	Load an M257 smoke grenade launcher	8-24
0313-M257-1003	Unload M257 smoke grenade launcher	8-25
0313-M257-1006	Fire the M257 smoke grenade launcher	8-26
0313-M257-1007	Perform immediate action procedures for an M257 smoke grenade launcher	8-27
<b>MOBILITY</b>		
0313-MOBL-1001	Operate an LAV in water	8-27
0313-MOBL-1002	Recover a disabled LAV	8-28
0313-MOBL-1003	Drive an LAV	8-29
<b>PREVENTIVE MAINTENANCE AND SERVICES</b>		
0313-PMCS-1001	Perform Preventive Maintenance Checks and Services (PMCS) on an LAV hull	8-29
0313-PMCS-1002	Perform Preventive Maintenance Checks and Services (PMCS) on an LAV turret	8-30
0313-PMCS-1003	Maintain LAV SL-3 equipment	8-30

**8004. 1000-LEVEL EVENTS**

**0313-COAX-1001:** Perform Preventive Maintenance Checks and Services (PMCS) on an M240 coaxially-mounted machine gun

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 0313

**BILLETS:** Vehicle Crewman

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an LAV with an M240 coaxially-mounted machinegun.

**STANDARD:** To ensure equipment readiness.

**PERFORMANCE STEPS:**

1. Clear the machinegun
2. Remove the machinegun from the turret

3. Disassemble the machinegun into its eight major groups
4. Clean the machinegun
5. Inspect the machinegun
6. Lubricate the machinegun
7. Assemble the machinegun
8. Perform a safety/functions check
9. Install the machinegun into the turret
10. Record/report discrepancies

**REFERENCES:**

1. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret
- 

**0313-COAX-1002:** Load the M240 7.62mm coaxially-mounted machinegun

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 0313

**BILLETS:** Vehicle Crewman

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an LAV.

**STANDARD:** To ready the weapon to fire in a time limit of 5 minutes.

**PERFORMANCE STEPS:**

1. Ensure that the turret is powered down
2. Ensure that the turret is locked
3. Ensure that the M240 is clear
4. Ensure that the feed chute is connected
5. Load the ready box
6. Route the ammo to the M240
7. Place the ammunition in the M240
8. Open the cover assembly
9. Install the ammunition belt on feed tray
10. Close the cover assembly
11. Charge the M240 machine gun
12. Set the manual safe on the M240 to SAFE.

**REFERENCES:**

1. MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment

**SUPPORT REQUIREMENTS:**

**ORDNANCE:**

DODIC

A135 Cartridge, 7.62mm Dummy M63

Quantity

400 rounds per weapon

---

**0313-COAX-1003:** Unload the M240 7.62mm coaxially-mounted machinegun

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 6 months

**MOS PERFORMING:** 0313

**BILLETS:** Vehicle Crewman

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an LAV

**STANDARD:** To clear the weapon.

**PERFORMANCE STEPS:**

1. Pull charging handle to lock the bolt to the rear
2. Ensure that the manual safety is on SAFE
3. Open the cover assembly
4. Remove any ammunition from the feed tray
5. Raise the feed tray
6. Look into the chamber to ensure that there are no rounds in the chamber
7. Close the cover assembly
8. Place the manual safety to the fire position
9. Pull the trigger, ride bolt forward
10. Remove the ammunition can from the swing-mount gun cradle

**REFERENCES:**

1. MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment
2. MCWP 3-15.1 Machineguns and Machinegun Gunnery
3. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

**SUPPORT REQUIREMENTS:**

**ORDNANCE:**

<u>DODIC</u>	<u>Quantity</u>
A135 Cartridge, 7.62mm Dummy M63	400 rounds per weapon

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** There is a time limit for this task within the MCWP 3-14.1 under the LAV Gunnery Skills Test (LGST) chapter. The time limit covers multiple tasks that are grouped together in one station. The time limit will not show up in the standards for this task but can be found in the reference.

---

**0313-COAX-1004:** Boresight the M240 7.62mm coaxially-mounted machinegun

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: To achieve point of aim/point of impact.

PERFORMANCE STEPS: Due to complexity, the performance steps for this task will be completed in accordance with the associated references

REFERENCES:

1. MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment
2. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

SUPPORT REQUIREMENTS:

RANGE/TRAINING AREA: Facility Code 17721 Tank/Fighting Vehicle  
Multipurpose Range Complex

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: There is a time limit for this task within the MCWP 3-14.1 under the LAV Gunnery Skills Test (LGST) chapter. The time limit covers multiple tasks that are grouped together in one station. The time limit will not show up in the standards for this task but can be found in the reference.

---

0313-COAX-1005: Zero the M240 7.62mm coaxially-mounted machinegun

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313

BILLETS: Vehicle Gunner

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV and references.

STANDARD: To achieve point of aim/point of impact.

PERFORMANCE STEPS: Due to complexity, the performance steps for this task will be completed in accordance with the associated reference.

REFERENCES:

1. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret
-

0313-COAX-1006: Engage targets with an M240 7.62mm coaxially mounted machinegun

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0313

BILLETS: Vehicle Commander, Vehicle Gunner

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: To destroy target.

PERFORMANCE STEPS:

1. React to fire command
2. Announce "identified" when target is acquired
3. Select the weapon system
4. Determine technique of engagement
5. Aim at the target
6. Fire a burst at the target
7. Announce an observation
8. Make a direct fire adjustment based upon the observation
9. Repeat steps four through eight nine until target is destroyed or Vehicle commander announces "cease fire"

REFERENCES:

1. MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A131 Cartridge, 7.62mm 4 Ball M80/1 Trace	400 rounds per weapon

RANGE/TRAINING AREA: Facility Code 17721 Tank/Fighting Vehicle Multipurpose Range Complex.

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS:

1. This is a LAV-25 gunner task that will be performed to standard on table "gunnery".
2. Simulation may be used as a precursor to live training in order to help maximize and enhance the live training event. (B)

---

0313-COAX-1007: Perform immediate action procedures for an M240 7.62mm machinegun



EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 3 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV

STANDARD: To restore the weapon to a firing condition.

PERFORMANCE STEPS: Due to complexity, the performance steps for this task will be completed in accordance with the associated references.

REFERENCES:

1. TM 08594A-10/1 Operators Manual, LAV-25 Turret
  2. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240
- 

0313-COMM-1001: Communicate using LAV intercom equipment

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: To coordinate vehicle operations with another crewman.

PERFORMANCE STEPS:

1. Ensure master switch is on
2. Connect the helmet cord to the quick disconnect plug of the yo-yo cord
3. Plug short connection of yo-yo cord into right side of the intercom control box and the long connection into the left
4. Adjust the controls of the AM-7162 Audio Amplifier to their required positions
5. Adjust the controls of the intercom control box to required settings
6. Communicate with another crewman

REFERENCES:

1. TM 08594A-10/1 Operators Manual, LAV-25 Turret
-

0313-COMM-1002: Communicate using a single channel radio set

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: To establish communications.

PERFORMANCE STEPS:

1. Determine the type of transmission required, plain or cipher
2. Turn on all communication equipment
3. Run self test on radio set
4. Add cryptographic key (if required)
5. Load a single channel frequency
6. Get a radio check with another vehicle

REFERENCES:

1. TM 11-5820-667-12 Radio Set AN/PRC-77
- 

0313-M240-1001: Perform Preventive Maintenance Checks and Services (PMCS) on an M240B pintleswing-mounted machinegun

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313, 0341, 0352

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV with an M240B pintleswing-mounted machinegun.

STANDARD: To ensure equipment readiness.

PERFORMANCE STEPS:

1. Clear the machinegun
2. Remove the machinegun from the pintle swing mount
3. Disassemble the machinegun into its eight major groups
4. Clean the machinegun
5. Inspect the machinegun
6. Lubricate the machinegun
7. Assemble the machinegun
8. Perform a safety function check
9. Install the machinegun on the pintle swing mount
10. Record/report discrepancies to organizational maintenance

REFERENCES:

1. TM 08670A-10/1A Operator's Manual, Machinegun, 7.62mm, M240

2. TM 08940A-10-1 Operator's Manual

---

0313-M240-1002: Load the M240 variant 7.62mm pintleswing-mounted machinegun

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: To ready the weapon to fire in a time limit of 2 minutes.

PERFORMANCE STEPS:

1. Place the manual safety to the SAFE position
2. Open the cover assembly
3. Raise the feed tray
4. Look into the chamber to ensure that no rounds are present
5. Close the cover assembly
6. Place the manual safety to the fire position
7. Pull the trigger and ride the bolt forward
8. Open the cover assembly
9. Attach the 7.62MM ammunition can to the gun cradle
10. Install the ammunition belt on the feed tray
11. Close cover assembly
12. Charge the M240B machine gun
13. Set the manual safe to safe

REFERENCES:

1. MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment
2. MCWP 3-15.1 Machineguns and Machinegun Gunnery
3. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A135 Cartridge, 7.62mm Dummy M63	200 rounds per weapon

---

0313-M240-1003: Unload the M240 variant 7.62mm pintleswing-mounted machinegun

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: To clear the weapon.

PERFORMANCE STEPS:

1. Pull charging handle to lock the bolt to the rear
2. Ensure that the manual safety is on SAFE
3. Open the cover assembly
4. Remove any ammunition from the feed tray
5. Raise the feed tray
6. Look into the chamber to ensure that there are no rounds in the chamber
7. Close the cover assembly
8. Place the manual safety to the fire position
9. Pull the trigger, ride bolt forward
10. Remove the ammunition can from the swing-mount gun cradle

REFERENCES:

1. MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment
2. MCWP 3-15.1 Machineguns and Machinegun Gunnery
3. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A135 Cartridge, 7.62mm Dummy M63	200 rounds per weapon

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: There is a time limit for this task within the MCWP 3-14.1 under the LAV Gunnery Skills Test (LGST) chapter. The time limit covers multiple tasks that are grouped together in one station. The time limit will not show up in the standards for this task but can be found in the reference.

---

0313-M242-1001: Perform Preventive Maintenance Checks and Services (PMCS) on an M242 25mm automatic gun

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV with an installed M242 25mm automatic gun.

STANDARD: To ensure equipment readiness.

PERFORMANCE STEPS:

1. Clear the gun
2. Remove the gun from the turret
3. Disassemble the gun into the three main assemblies
4. Disassemble the receiver into its sub-assemblies
5. Clean the weapon
6. Inspect the weapon
7. Lubricate the weapon
8. Assemble the sub-assemblies of the receiver assembly
9. Assemble the three main assemblies
10. Perform a function check
11. Install the weapon into the turret
12. Record/report discrepancies
13. Report discrepancies to organizational maintenance

REFERENCES:

1. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret
- 

0313-M242-1002: Load the M242 25mm automatic gun

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV-25.

STANDARD: To ready the weapon for firing in a time limit of 10 minutes.

PERFORMANCE STEPS: Due to complexity, the performance steps for this task will be completed in accordance with the associated references

REFERENCES:

1. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A967 Cartridge, 25mm Dummy M794 Linked	210 cartridges per weapon

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** There is a time limit for this task within the MCWP 3-14.1 under the LAV Gunnery Skills Test (LGST) chapter. The time limit covers multiple tasks that are grouped together in one station. The time limit will not show up in the standards for this task but can be found in the reference.

---

**0313-M242-1003:** Unload the M242 25mm automatic gun

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 0313

**BILLETS:** Vehicle Crewman

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an LAV-25.

**STANDARD:** To clear the weapon.

**PERFORMANCE STEPS:** Due to complexity, the performance steps for this task will be completed in accordance with the associated references.

**REFERENCES:**

1. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

**SUPPORT REQUIREMENTS:**

**ORDNANCE:**

<u>DODIC</u>	<u>Quantity</u>
A967 Cartridge, 25mm Dummy M794 Linked	210 cartridges per weapon

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** There is a time limit for this task within the MCWP 3-14.1 under the LAV Gunnery Skills Test (LGST) chapter. The time limit covers multiple tasks that are grouped together in one station. The time limit will not show up in the standards for this task but can be found in the reference.

---

**0313-M242-1006:** Engage targets with an M242 25mm automatic gun

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 6 months

**MOS PERFORMING:** 0313

BILLETS: Vehicle Commander, Vehicle Gunner

GRADES: CPL, SGT, SSGT, GYSGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: By achieving desired affect effect on target.

PERFORMANCE STEPS:

1. React to fire command
2. Announce "identified" when target is acquired
3. Select the appropriate ammunition
4. Aim at the target using the desired sight reticle
5. Fire a three round burst at the target
6. Announce an observation
7. Make a direct fire adjustment based upon the observation
8. Fire a three round burst at the target
9. Repeat steps four through eight until target is destroyed or vehicle commander announces "cease fire"
10. Repeat steps one through nine until all targets are destroyed

REFERENCES:

1. MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment
2. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
A940 Cartridge, 25mm TPDS-T M910 Linked	120 cartridges per weapon
A976 Cartridge, 25mm TP-T M793 Linked	300 cartridges per weapon

RANGE/TRAINING AREA: Facility Code 17721 Tank/Fighting Vehicle  
Multipurpose Range Complex

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Simulation may be used as a precursor to live training in order to help maximize and enhance the live training event. (B)

---

0313-M242-1007: Perform immediate action procedures for an M242 25mm automatic gun

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 6 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: To restore the weapon to a firing condition.

PERFORMANCE STEPS: Due to complexity, the performance steps for this task will be completed in accordance with the associated reference.

REFERENCES:

1. MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment
2. TM 08940A-10-1 Operator's Manual

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Simulation may be used as a precursor to live training in order to help maximize and enhance the live training event. (B)

---

0313-M257-1001: Perform Preventive Maintenance Checks and Services (PMCS) on an M257 smoke grenade launcher

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: To ensure equipment readiness.

PERFORMANCE STEPS:

1. Clear the launcher
2. Clean the launcher tubes
3. Inspect the launcher tubes
4. Test launcher
5. Record/report discrepancies to organizational maintenance

REFERENCES:

1. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret
- 

0313-M257-1002: Load an M257 smoke grenade launcher

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313



**BILLETS:** Vehicle Crewman

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an LAV.

**STANDARD:** To prepare the LAV for operation.

**PERFORMANCE STEPS:**

1. Load the M257 Smoke Grenade launcher
2. Turn the vehicle and turret power off
3. Turn the grenade launcher switches off
4. Insert the grenades into the M257
5. Rotate 90 degrees

**REFERENCES:**

1. TM 08594A-10/1\_\_ Operators Manual, LAV-25 Turret

**SUPPORT REQUIREMENTS:**

**ORDNANCE:**

<u>DODIC</u>	<u>Quantity</u>
G826 Grenade, Launcher Smoke Infrared Scr	8 grenades per weapon

**RANGE/TRAINING AREA:**

Facility Code 17430 Impact Area Dudded

---

**0313-M257-1003:** Unload M257 smoke grenade launcher

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 0313

**BILLETS:** Vehicle Crewman

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an LAV.

**STANDARD:** To clear the grenade launcher.

**PERFORMANCE STEPS:**

1. Set weapon power circuit breaker to off
2. Set turret power circuit breaker to off
3. Perform engine shut down
4. Set master switch to off
5. Lock turret drive lock
6. Set salvo switches to off

7. Ensure grenade launcher ready is not lit
8. Without placing any part of body in front launcher remove grenades from launch tubes
9. Carefully place grenades in stowage box
10. Clean launch tube
11. Ensure launch tube contacts are clean
12. Install protective caps

**REFERENCES:**

1. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

**SUPPORT REQUIREMENTS:**

**ORDNANCE:**

<u>DODIC</u>	<u>Quantity</u>
G826 Grenade, Launcher Smoke Infrared Scr	8 grenades per weapon

**RANGE/TRAINING AREA:** Facility Code 17430 Impact Area Dudded

---

**0313-M257-1006:** Fire the M257 smoke grenade launcher

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 0313

**BILLETS:** Vehicle Crewman

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

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an LAV.

**STANDARD:** In order to provide obscuration.

**PERFORMANCE STEPS:**

1. Assess the situation
2. Orient the turret/vehicle in the direction where the smoke is needed
3. Announce "grenade launcher".
4. The crew secures all hatches
5. Turn the weapon power circuit breaker on
6. Turn the grenade launcher switch (es) on
7. Announce "fire"
8. Fire the grenade launcher(s)
9. Announce "grenades launched"
10. Execute required immediate action drill

**REFERENCES:**

1. MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment
2. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Simulation may be used as a precursor to live training in order to help maximize and enhance the live training event. (B)

---

0313-M257-1007: Perform immediate action procedures for an M257 smoke grenade launcher

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: In order to provide obscuration.

PERFORMANCE STEPS: Due to complexity, the performance steps for this task will be completed in accordance with the associated reference

REFERENCES:

1. TM 08594A-10/1\_ Operators Manual, LAV-25 Turret

SUPPORT REQUIREMENTS:

ORDNANCE:

<u>DODIC</u>	<u>Quantity</u>
G826 Grenade, Launcher Smoke Infrared Scr	8 grenades per weapon

RANGE/TRAINING AREA: Facility Code 17430 Impact Area Dudded

---

0313-MOBL-1001: Operate an LAV in water

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 18 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

**STANDARD:** Without injury to the crew, damage to the vehicle, or loss of vehicle control.

**PERFORMANCE STEPS:**

1. Perform pre-swimming checks
2. Perform in-water inspection of seals prior to swimming vehicle
3. Enter the water
4. Swim the vehicle
5. Exit the water
6. Perform after swim PMCS
7. Report all vehicle discrepancies

**REFERENCES:**

1. TM 08594B-10/2B Operator's Manual LAV-25 Hull

**MISCELLANEOUS:**

**ADMINISTRATIVE INSTRUCTIONS:** LAV water operations should adhere to current SOUM.

---

**0313-MOBL-1002:** Recover a disabled LAV

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 0313

**BILLETS:** Vehicle Crewman

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an LAV.

**STANDARD:** Without injury to personnel or damage to the vehicles.

**PERFORMANCE STEPS:**

1. Assess the situation
2. Erect an applicable rigging
3. Using hand and arm signals
4. Winch in the disabled LAV
5. Disconnect the rigging
6. Stow the winch cable and all other gear used in the recovery
7. Inspect for damage

**REFERENCES:**

1. MCRP 4-24A Vehicle Recovery Operations
  2. TM 08594A-10/1 Operators Manual, LAV-25 Turret
  3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
-

0313-MOBL-1003: Drive an LAV

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 12 months

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

GRADES: PVT, PFC, LCPL, CPL, SGT

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: Without injury to the crew, damage to the vehicle, or loss of vehicle control.

PERFORMANCE STEPS:

1. Perform before operational checks.
2. Start the engine
3. Warm up the engine
4. Place the vehicle in motion
5. Operate the vehicle in varied terrain
6. Operate drivers visual enhancer
7. Perform during operational checks
8. Shut down the engine
9. Perform after operational checks
10. Operate the vehicle in periods of reduced visibility

REFERENCES:

1. TM 08594B-10/2B Operator's Manual LAV-25 Hull
2. TM 8H667-13&P/1 Drivers Vision Enhancer

MISCELLANEOUS:

ADMINISTRATIVE INSTRUCTIONS: Simulation may be used as a precursor to live training in order to help maximize and enhance the live training event. (B)

---

0313-PMCS-1001: Perform Preventive Maintenance Checks and Services (PMCS) on an LAV hull

EVALUATION-CODED: NO

SUSTAINMENT INTERVAL: 1 month

MOS PERFORMING: 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

**STANDARD:** To ensure equipment readiness.

**PERFORMANCE STEPS:**

1. Clean the LAV hull
2. Inspect the LAV hull
3. Determine schedule of PMCS
4. Perform PMCS
5. Lubricate the hull
6. Clean communications equipment in the LAV hull
7. Inspect communications equipment in the LAV hull
8. Record/report discrepancies to organizational maintenance

**REFERENCES:**

1. LI 08594C-12-2A LAV-25
  2. LI 08594C-12/1B Lubrication Instruction, LAV-25 Turret
  3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
- 

**0313-PMCS-1002:** Perform Preventive Maintenance Checks and Services (PMCS) on an LAV turret

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 0313

**BILLETS:** Vehicle Crewman

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT, GYSGT, MSGT, MGYSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Given an LAV.

**STANDARD:** To ensure equipment readiness.

**PERFORMANCE STEPS:**

1. Clean the LAV hull
2. Inspect the LAV hull
3. Lubricate the hull
4. Record/report discrepancies to organizational maintenance

**REFERENCES:**

1. LI 08594C-12-2A LAV-25
  2. LI 08594C-12/1B Lubrication Instruction, LAV-25 Turret
  3. TM 08594B-10/2B Operator's Manual LAV-25 Hull
- 

**0313-PMCS-1003:** Maintain LAV SL-3 equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**MOS PERFORMING:** 0313

BILLETS: Vehicle Crewman

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

INITIAL TRAINING SETTING: FORMAL

CONDITION: Given an LAV.

STANDARD: To ensure equipment readiness.

PERFORMANCE STEPS:

1. Clean the vehicle SL-3 equipment
2. Inspect the vehicle SL-3 equipment
3. Inventory the vehicle SL-3 equipment
4. Record inventory results
5. Annotate discrepancies
6. Reconcile discrepancies

REFERENCES:

1. SL-3 08594A LAV-25
  2. SL-3 08650A LAV C2
  3. SL-3 08652A LAV-AT
  4. SL-3 08654A LAV-L
  5. SL-3 08655A LAV-M
  6. TM 4700-15/1\_ Ground Equipment Record Procedures
-

LAR T&R MANUAL

APPENDIX A

ACRONYMS AND ABBREVIATIONS

AA&E	Arms, Ammunition, and Explosives
AAR	After Action Review
AAV	Amphibious Assault Vehicle
ACA	Air-Space Coordination Area
ACE	Ammunition, Casualty, and Equipment
ACE	Aviation Command Element
ACM	Aviation Control Measures
AE	Angle of Elevation
AGM	Attack Guidance Matrix
AI	Area of Influence
AO	Area of Operations
AOI	Area of Interest
APOBS	Anti-Personnel Obstacle Breaching System
AS	Angle of Sight
ASE	Air Support Element
ASLT	Air Support Liaison Team
AT	Anti-tank
AtN	Attack the Network
APERS	Anti-personnel
BCL	Battlespace Coordination Line
BCP	Body Composition Program
BDA	Battle Damage Assessment
BFT	Blue Force Tracker
BIT	Built in Test
BP	Battle Positions
BUIS	Back-up Iron Sights
BZO	Battle Sight Zero
C2	Command and Control
CAS	Close Air Support
CASEVAC	Casualty Evacuation
CAST	Combined Arms Staff Trainer
CBRN	Chemical, Biological, Radiological, Nuclear
CBRNE	Chemical, Biological, Radiological, Nuclear Environment
CBAE	Commanders Battle space Area Evaluation
CCIR	Commander's Critical Information Requirements
CCM	Close Combat Marines
CCOC	Company Combat Operations Center
CCP	Casualty Collection Point
CCRB	Course Content Review Board
CDE	Collateral Damage Estimates
CDS	Containerized Delivery System
CE	Command Element
CFF	Call for Fire
CFL	Coordinate Firing Line
CGI	Commanding General's Inspection
CIAP	Competition in Arms Program



CIED . . . . . Counter-IED  
CLIC . . . . . Company Level Intelligence Cell  
CLU . . . . . Command Launch Unit  
CMBH . . . . . Combat Hunter  
CMO . . . . . Civil Military Operations  
CMOC . . . . . Civil Military Operations Center  
CMR . . . . . Consolidated Memorandum Receipt  
CAN . . . . . Computer Network Attack  
CNO . . . . . Computer Network Operations  
COA . . . . . Course of Action  
COC . . . . . Combat Operations Center  
CONPLAN . . . . . Concept of Operation Plan  
COP . . . . . Common Operating Picture  
COP . . . . . Combat Outpost  
CP . . . . . Command Post  
CTP . . . . . Common Tactical Picture  
CTTP . . . . . Counter TTP  
CSMO . . . . . Close Station March Order  
CSS . . . . . Combat Service Support  
DASC . . . . . Direct Air Support Center  
DCP . . . . . Detainee Collection Point  
DNS . . . . . Day/Night Sight  
DOCEX . . . . . Document Exploitation  
DODIC . . . . . Department of Defense Identification Code  
DRRS . . . . . Defense Readiness Reporting System  
DVTE . . . . . Deployable Virtual Training Environment  
EA . . . . . Electronic Attack  
EAP . . . . . Emergency Action Plan  
ECC . . . . . Evacuation Control Center  
ECP . . . . . Entry Control Point  
EDL . . . . . Equipment Density List  
EEFI . . . . . Essential Elements of Friendly Information  
EFST . . . . . Essential Fire Support Tasks  
EIC . . . . . Excellence in Competition  
EKMS . . . . . Electronic Key Management System  
EOD . . . . . Explosives Ordnance Disposal  
EOM . . . . . End of Mission  
EP . . . . . Electronic Protection  
EPBST . . . . . Enhanced Producibility Basic Skills Trainer  
ES . . . . . Electronic Support  
EW . . . . . Electronic Warfare  
FA . . . . . Field Artillery  
FAC . . . . . Forward Area Controller  
FCS . . . . . Fire Control Sub-system  
FDC . . . . . Fire Direction Center  
FDP&E . . . . . Force Deployment Planning & Execution  
FFA . . . . . Free Fire Areas  
FFE . . . . . Fire for Effect  
FFIR . . . . . Friendly Force Information Requirements  
FFP . . . . . Final Firing Position  
FIRECAP . . . . . Fire Capability  
FPCON . . . . . Force Protection Condition  
FPF . . . . . Final Protective Fire  
FPL . . . . . Final Protective Line

FM . . . . . Field Manual  
FO . . . . . Forward Observer  
FOB . . . . . Forward Operating Base  
FONS . . . . . Fleet Operational Needs Statement  
FP . . . . . Firing Positions  
FRAGO . . . . . Fragmentary Order  
FSA . . . . . Fire Support Areas  
FSCC . . . . . Fire Support Coordination Center  
FSCL . . . . . Fire Support Coordination Line  
FSCM . . . . . Fire Support Coordination Measures  
FIST . . . . . Fire Support Team  
FWIC . . . . . Foreign Weapons Instructor Course  
GCE . . . . . Ground Combat Element  
GPS . . . . . Global Positioning System  
GT . . . . . Gun-Target  
HA . . . . . Holding Areas  
HAS . . . . . Higher, Adjacent, Supporting  
HAT . . . . . Helicopter Availability Tables  
HAW . . . . . Heavy Antitank Weapon  
HAZMAT . . . . . Hazardous Material  
HE . . . . . High Explosive  
HEALT . . . . . Helicopter Employment and Assault Landing Table  
HF . . . . . High Frequency  
HHQ . . . . . Higher Headquarters  
HIIDE . . . . . Handheld Interagency Identity Detection Equipment  
HLD . . . . . Helicopter Landing Diagram  
HN . . . . . Host Nation  
HOB . . . . . Height of Burst  
HST . . . . . Helicopter Support Team  
HVI . . . . . High Value Individual  
HVT . . . . . High Value Target  
HWSAT . . . . . Helicopter Wave and Serial Assignment Table  
IA . . . . . Information Assurance  
IAR . . . . . Infantry Automatic Rifle  
ICP . . . . . Initial Commencement Point  
IED . . . . . Improvised Explosive Device  
IERS . . . . . Information Exchange Requirements  
IM . . . . . Information Management  
IO . . . . . Information Operation  
IOW . . . . . Intelligence Operations Workstation  
IP . . . . . Initial Point  
IPB . . . . . Intelligence Preparation of the Battlespace  
IPOE . . . . . Intelligence Preparation of the Operating Environment  
IR . . . . . Information Requirements  
ISMT . . . . . Individual Small-Arms Marksmanship Trainer  
ISR . . . . . Intelligence, Surveillance, & Reconnaissance  
ITG . . . . . Initial Terminal Guidance  
I&W . . . . . Indications and Warning  
IZLID . . . . . Infrared Zoom Laser Illuminator/Designator  
J-FIRE . . . . . Joint Application of Firepower  
JIIM . . . . . Joint, Interagency, Intergovernmental, Multinational  
JIPTL . . . . . Joint Integrated Prioritized Target List  
JTAC . . . . . Joint Terminal Attack Controller  
KD . . . . . Known Distance

KIA . . . . . Killed in Action  
KIM . . . . . Keep In Memory  
LAAD . . . . . Low Altitude Air Defense  
LAW . . . . . Light Antitank Weapon  
LBB . . . . . Lithium-ion Battery Box  
LBS . . . . . Laser Boresight  
LD . . . . . Line of Departure  
LEP . . . . . Law Enforcement Professional  
LOA . . . . . Line of Advance  
LOC . . . . . Lines of Communication  
LOD . . . . . Line of Departure  
LOGCAP . . . . . Logistics Civilian Augmentation Program  
LOI . . . . . Letter of Instruction  
LOO . . . . . Lines of Operation  
LP . . . . . Listening Post  
LRC . . . . . Learning Resource Center  
LRSR . . . . . Long Range Sniper Rifle  
LTI . . . . . Limited Technical Inspection  
LZ . . . . . Landing Zone  
MACCS . . . . . Marine Air Command and Control System  
MACO . . . . . Marshalling Area Control Officer  
MAW . . . . . Medium Antitank Weapon  
MAV . . . . . Micro Aerial Vehicle  
MBC . . . . . Mortar Ballistic Computer  
MCCMP . . . . . Marine Corps Combat Marksmanship Program  
MCERG . . . . . Marine Corps Equipment Review Group  
MCPP . . . . . Marine Corps Planning Process  
MDO . . . . . Machinegun Day Optic  
MEDEVAC . . . . . Medical Evacuation  
METL . . . . . Mission Essential Task List  
METOC . . . . . Meteorological and Oceanographic  
METT-TSLC . . . . . Mission, Enemy, Terrain and Weather, Troops and Fire  
Support Available, Time Available, Space, Logistics,  
Civil Considerations  
  
MILDEC . . . . . Military Deception  
MIPIM . . . . . Mini Integrated Pointer Illuminator Module  
MLCOA . . . . . Most Likely Course of Action  
MOE . . . . . Measures of Effectiveness  
MOJT . . . . . Managed on the Job Training  
MOP . . . . . Measures of Performance  
MOPP . . . . . Mission Oriented Protective Posture  
MOUT . . . . . Military Operations on Urbanized Terrain  
MPF . . . . . Maritime Prepositioning Force  
MPMG . . . . . Multipurpose Machine Gun Range  
MTC . . . . . Movement to Contact  
MTO . . . . . Message to Observer  
MTTP . . . . . Military Tactics, Techniques, and Procedures  
NAAK . . . . . Nerve Agent Antidote Kit  
NATO . . . . . North Atlantic Treaty Organization  
NBC . . . . . Nuclear, Biological, and Chemical  
NEO . . . . . Non-Combatant Evacuation Operations  
NFA . . . . . No Fire Areas  
NGFS . . . . . Naval Gunfire Support  
NSFS . . . . . Naval Surface Fire Support

NVD . . . . . Night Vision Device  
ODS . . . . . Operational Driver Simulator  
OE . . . . . Operational Environment  
OIC . . . . . Officer in Charge  
OKOCA-W . . . . . Observation, Key terrain features, Obstacles,  
Cover and Concealment and Avenue, Weather  
OODA . . . . . Observe, Orient, Decide, Act  
OP . . . . . Observation Post  
OPLAN . . . . . Operations Plan  
OPORD . . . . . Operations Order  
OPSEC . . . . . Operational Security  
OPT . . . . . Operational Planning Team  
ORAW . . . . . Operational Risk Assessment Worksheet  
ORM . . . . . Operational Risk Management  
ORP . . . . . Objective Rally Point  
OT . . . . . Observer to Target  
PCC . . . . . Pre-Combat Check  
PCI . . . . . Pre-Combat Inspection  
PCR . . . . . Personnel Casualty Report  
PDF . . . . . Principle Direction of Fire  
PFI . . . . . Pre-Fire Inspection  
PICMDEEP . . . . . Pairs, Interlocking, Coordinating, Mutual  
Support, Defilade, Enfilading Fire,  
Economy of Fire, and Protection  
PIR . . . . . Priority Intelligence Requirement  
PL . . . . . Phase Line  
PMCS . . . . . Preventative Maintenance Checks and Services  
PME . . . . . Professional Military Education  
POA . . . . . Point of Aim  
POI . . . . . Point of Impact  
POL . . . . . Petroleum, Oils, and Lubricants  
POM . . . . . Program Objectives Memorandum  
POSREP . . . . . Position Report  
PPE . . . . . Personal Protective Equipment  
PSYOP . . . . . Psychological Operations  
QE . . . . . Quadrant Elevation  
QRF . . . . . Quick Reaction Force  
R2P2 . . . . . Rapid Response Planning Process  
RAM . . . . . Random Antiterrorism Measures  
RADBN . . . . . Radio Battalion  
RBE . . . . . Remain Behind Equipment  
RCO . . . . . Rifle Combat Optic  
RFA . . . . . Restrictive Fire Areas  
RFI . . . . . Request for Information  
RFL . . . . . Restrictive Fire Line  
RIP . . . . . Relief in Place  
RMR . . . . . Ruggedized Miniature Reticle  
RO . . . . . Radio Operator  
ROE . . . . . Rules of Engagement  
ROMO . . . . . Range of Military Operations  
RP . . . . . Reference Point  
RPG . . . . . Rocket Propelled Grenade  
RREMS . . . . . Refinement data, Record as Target, End of Mission, and Surveillance  
RSO . . . . . Range Safety Officer

RSO&I . . . . . Reception, Staging, Onward Movement, and Integration  
RSOP . . . . . Reconnaissance, Selection, and Occupation of Firing Position  
SALUTE . . . . . Size, Activity, Location, Unit, Time, and Equipment  
SARCC . . . . . Surveillance and Reconnaissance Control Centers  
SASR . . . . . Special Application Scoped Rifle  
SATCOM . . . . . Satellite Communications  
SCC . . . . . Sniper Control Center  
SCLU . . . . . Simulated Command Launch Unit  
SDK . . . . . Skin Decontamination Kit  
SDO . . . . . Squad Day Optic  
SDZ . . . . . Surface Danger Zone  
SE . . . . . Site Exploitation  
SEAD . . . . . Suppression of Enemy Air Defenses  
SHELREP . . . . . Shelling Report  
SIR . . . . . Specific Information Requirement  
SITREP . . . . . Situation Report  
SMAW . . . . . Shoulder-Launched Multipurpose Assault Weapon  
SOM . . . . . Scheme of Maneuver  
SOP . . . . . Standing Operating Procedures  
SSE . . . . . Sensitive Site Exploitation  
STRESS . . . . . Search, Tag, Report, Evacuate, Segregate, and Safeguard  
TA . . . . . Target Acquisition  
TA . . . . . Training Area  
TAA . . . . . Tactical Assembly Area  
TACLOG . . . . . Tactical-Logistical Group  
TAI . . . . . Target Area of Interest  
TAS . . . . . Target Acquisition Sub-system  
TCP . . . . . Tactical Control Point  
TD . . . . . Tactical Debriefing  
TEEP . . . . . Training Exercise and Employment Plan  
TEWT . . . . . Tactical Exercise without Troops  
TFT . . . . . Tabulated Firing Tables  
TIO . . . . . Target Information Officer  
TM . . . . . Technical Manual  
TOW . . . . . Tube-launched, Optically tracked, Wire-guided missile  
TO&E . . . . . Table of Organization and Equipment  
TPFDD . . . . . Time Phased Force Deployment Data  
TQ . . . . . Tactical Questioning  
TRAP . . . . . Tactical Recovery of Aircraft and Personnel  
TRP . . . . . Target Reference Point  
TSE . . . . . Tactical Site Exploitation  
TSS . . . . . Target Selection Standards  
TST . . . . . Time Sensitive Target  
TTP . . . . . Tactics, Techniques, and Procedures  
TU . . . . . Traversing Unit  
UAS . . . . . Unmanned Aerial System  
UHF . . . . . Ultra High Frequency  
UPA . . . . . Universal Pintle Adapter  
UTM . . . . . Unit Training Management  
VBS1 . . . . . Visual Battlefield System 1  
VBS2 . . . . . Visual Battlefield System 2  
VCP . . . . . Vehicle Check Point  
WIA . . . . . Wounded in Action

LAR T&R MANUAL

APPENDIX B

TERMS AND DEFINITIONS

Terms in this glossary are subject to change as applicable orders and directives are revised. Terms established by Marine Corps orders or directives take precedence after definitions found in Joint Pub 1-02, DOD Dictionary of Military and Associated Terms.

**A**

**After Action Review (AAR).** A professional discussion of training events conducted after all training to promote learning among training participants. The formality and scope increase with the command level and size of the training evolution. For longer exercises, they should be planned for at predetermined times during an exercise. The results of the AAR shall be recorded on an after action report and forwarded to higher headquarters. The commander and higher headquarters use the results of an AAR to reallocate resources, reprioritize their training plan, and plan for future training.

**C**

**Chaining.** A process that enables unit leaders to effectively identify subordinate collective events and individual events that support a specific collective event. For example, collective training events at the 4000-level are directly supported by collective events at the 3000-level. Utilizing the building block approach to progressive training, these collective events are further supported by individual training events at the 1000 and 2000-levels. When a higher-level event by its nature requires the completion of lower level events, they are "chained"; Sustainment credit is given for all lower level events chained to a higher event.

**D**

**Deception.** Those measures designed to mislead the enemy by manipulation, distortion, or falsification of evidence to induce the enemy to react in a manner prejudicial to the enemy's interests. (JP 1-02)

**E**

**E-Coded Event.** An "E-Coded" event is a collective T&R event that is a noted indicator of capability or, a noted Collective skill that contributes to the unit's ability to perform the supported MET. As such, only "E-Coded" events are assigned a CRP value and used to calculate a unit's CRP.

**I**

**Individual Readiness.** The individual training readiness of each Marine is measured by the number of individual events required and completed for the rank or billet currently held.

M

**Marine Corps Combat Readiness and Evaluation System (MCCRES).** An evaluation system designed to provide commanders with a comprehensive set of mission performance standards from which training programs can be developed; and through which the efficiency and effectiveness of training can be evaluated. The Ground T&R Program will eventually replace MCCRES.

O

**Operational Readiness (OR).** (DoD or NATO) OR is the capability of a unit/formation, ship, weapon system, or equipment to perform the missions or functions for which it is organized or designed. May be used in a general sense or to express a level or degree of readiness.

P

**Performance Step.** Performance steps are included in the components of an Individual T&R Event. They are the major procedures (i.e., actions) a Marine unit must accomplish to perform an individual event to standard. They describe the procedure the task performer must take to perform the task under operational conditions and provide sufficient information for a task performer to perform the procedure (may necessitate identification of supporting steps, procedures, or actions in outline form). Performance steps follow a logical progression and should be followed sequentially, unless otherwise stated. Normally, performance steps are listed only for 1000-level individual events (those that are taught in the entry-level MOS school). Listing performance steps is optional if the steps are already specified in a published reference.

R

**Readiness.** (DoD) Readiness is the ability of U.S. military forces to fight and meet the demands of the national military strategy. Readiness is the synthesis of two distinct but interrelated levels: (a) Unit readiness--The ability to provide capabilities required by combatant commanders to execute assigned missions. This is derived from the ability of each unit to deliver the outputs for which it was designed. (b) Joint readiness--The combatant commander's ability to integrate and synchronize ready combat and support forces to execute assigned missions.

S

**Section Skill Tasks.** Section skills are those competencies directly related to unit functioning. They are group rather than individual in nature, and require participation by a section (S-1, S-2, S-3, etc).

T

**Training Task.** This describes a direct training activity that pertains to an individual Marine. A task is composed of 3 major components: a description of what is to be done, a condition, and a standard.

**U**

**Unit CRP.** Unit CRP is a percentage of the E-coded collective events that support the unit METL accomplished by the unit. Unit CRP is the average of all MET CRP.

**W**

**Waived Event.** An event that is waived by a commanding officer when in his or her judgment, previous experience or related performance satisfies the requirement of a particular event.



LAR T&R MANUAL

APPENDIX C

REFERENCES

**Department of the Army Pamphlet (DA PAM)**

DAPAM 385-63 Range Safety

**Field Manual (FM)**

FM 2-11 Anti-Mechanized Operations

FM 3-20.97 Reconnaissance Troop

FM 3-20.98 Reconnaissance Platoon

FM 3-21.9 SBCT Infantry Rifle Platoon and Squad

FM 3-90.3 Mounted Brigade Combat Team

FM 3-90.6 Brigade Combat Team

FM 4-02.4 Medical Platoon Leader's Handbook Tactics, Techniques, and Procedures

FM 5-36 Route Reconnaissance and Classification

FM 6-30 Tactics, Techniques, and Procedures for Observed Fire

FM 17-97 Cavalry Troop

FM 19-40 Enemy Prisoners of War/Civilian Internees

FM 33-130 Intelligence Preparation of the Battlefield

FM 34-130 Intelligence Preparation of the Battlefield

**Fleet Marine Force Manual (FMFM)**

FMFM 7-32 Raid Operation

**Marine Corps Doctrinal Publications (MCDPs)**

MCDP-3 Expeditionary Operations

**Marine Corps Reference Publication (MCRP)**

MCRP 2-25A Reconnaissance Reports Guide

MCRP 3-02G First Aid

MCRP 3-15.2A Mortars

MCRP 3-15.2B Mortar Gunnery

MCRP 3-16.6 Multi-Service Procedures for the Joint Application of Firepower

MCRP 3-17A/FM 5-34 Engineer Field Data

MCRP 3-17B Engineer Forms and Reports

MCRP 4-11.3F Convoy Operations Handbook

**Marine Corps Warfighting Publication (MCWP)**

MCWP 2-1 Intelligence Operations

MCWP 3-1 Ground Combat Operations

MCWP 3-11 Tactical-Level Logistics

MCWP 3-11.2 Marine Rifle Squad

MCWP 3-11.3 Scouting and Patrolling

MCWP 3-14.1 Light Armored Vehicle-25 Gunnery and Employment

MCWP 3-15.5 MAGTF Antiarmor Operations

MCWP 3-16 Fire Support Coordination in the Ground Combat Element

MCWP 3-16.6 Supporting Arms Observer, Spotter and Controller

MCWP 3-17 Engineer Operations

MCWP 3-17.1 River-Crossing Operations  
MCWP 3-17.4 Engineer Reconnaissance  
MCWP 3-31.6 Supporting Arms Coordination in Amphibious Operations  
MCWP 3-33 Military Operations Other Than War (MOOTW)  
MCWP 3-35.3 Military Operations on Urbanized Terrain (MOUT)  
MCWP 4-1 Logistics Operations  
MCWP 4-11 Tactical-Level Logistics  
MCWP 5-1 Marine Corps Planning Process (MCPP)

**Technical Manuals**

TM 4700-15/1\_ Ground Equipment Record Procedures  
TM 08594A-10/1\_ Operators Manual, LAV-25 Turret  
TM 08594B-10/2B Operator's Manual LAV-25 Hull  
TM 08650A-10A LAV-C2  
TM 08652B-10/2A LAV-AT  
TM 08654B-10A LAV-L  
TM 08655B-10A Operator's Manual LAV-M

**Miscellaneous**

GTA 5-7-8 Bridge Classification Card  
LI 08594C-12-2A LAV-25  
LI 08594C-12/1B Lubrication Instruction, LAV-25 Turret  
LI 08652-12A Operator's Manual LAV-AT Hull  
LI 08652A-12-1 Lubrication Instruction, Turret Light Armored Vehicle Antitank  
LAV-AT  
LI 08652A-12-1A Operator's Manual for LAV-AT Turret  
LI 08652A-12-2 Lubrication Instruction, Light Armored Vehicle Antitank LAV-AT  
LI 08652A-12A LAV-AT  
LI 08654A-12A LAV-M  
LI 08655B-12 Lubrication Instruction Light Armored Vehicle, Mortar, LAV-M  
TC 25-8 Training Ranges

LAR T&R MANUAL

APPENDIX D

CLASS V(W) REQUIRMENTS

1. The Class V listed in this appendix is required to train both the individual and collective LAR training events.
2. COLLECTIVE TRAINING (6000-Level). The following table lists the Class V requirements for the 6000-Level collective events (Company).

DODIC	NOMENCLATURE	TOTAL
A059	Cartridge, 5.56mm Ball M855 10/Clip	11970
A063	Cartridge, 5.56mm Tracer M856 Single Round	2394
A064	Cartridge, 5.56mm 4 Ball M855/1 Tracer M856 Linked	8400
A075	Cartridge, 5.56mm Blank M200 Linked	8800
A080	Cartridge, 5.56mm Blank M200 Single Round	12450
A111	Cartridge, 7.62mm Blank M82 Linked	29200
A131	Cartridge, 7.62mm 4 Ball M80/1 Tracer M62 Linked	28800
A143	Cartridge, 7.62mm Ball M80 Linked	28800
A358	Cartridge, 9mm TP-T M939 for AT-4 Trainer	40
A576	Cartridge, Caliber .50 4 API M8/1 AP	600
A606	Cartridge, Caliber .50 API MK211 Mod 0 Single Round	60
A940	Cartridge, 25mm TPDS-T M910 Linked	4320
A976	Cartridge, 25mm TP-T M793 Linked	4320
AX11	Cartridge, 9mm Spotting Rifle MK212	60
B504	Cartridge 40mm Green Star Parachute	74
B505	Cartridge, 40mm Red Star Parachute M	72
B506	Cartridge, 40mm Red Smoke Ground M	72
B508	Cartridge 40mm Green Smoke Ground	72
B509	Cartridge 40mm Yellow Smoke Ground	72
B519	Cartridge, 40mm Target Practice M781	360
B535	Cartridge, 40mm White Star Parachute M583/M583A1	74
BA12	Cartridge, 40mm Practice MK 281 Mod	240
C869	Cartridge, 81mm HE M889/M889A1 with	394
C870	Cartridge, 81mm Smoke Red Phosphorus	72
C871	Cartridge, 81mm Illuminating M853A1	122
G826	Grenade, Launcher Smoke Infrared Scr	144
G940	Grenade, Hand Green Smoke M18	77
G945	Grenade, Hand Yellow Smoke M18	72
G955	Grenade, Hand Violet Smoke M18	72
G982	Grenade, Hand Practice Smoke, TA M83	72
HA34	Rocket, SMAW HE 83mm Assault MK 79 MOD 0 (Thermobaric)	24
HX05	Rocket, 83mm HE Dualmode	12
L306	Signal, Illumination Ground Red Star	72
L307	Signal, Illumination Ground White Star Cluster M159	72
L311	Signal, Illumination Ground Red Star	72
L312	Signal, Illumination Ground White Star Parachute M127A1	72
L314	Signal, Illumination Ground Green Star Cluster M125A1	72
L323	Signal, Smoke Ground Red Parachute M	72
L324	Signal, Smoke Ground Green Parachute	72
M032	Charge, Demolition Block TNT 1-Pound	18
M130	Cap, Blasting Electric M6	25
M131	Cap, Blasting Non-Electric M7	25
M456	Cord, Detonating PETN Type I Class E	400
M670	Fuse, Blasting Time M700	200
M757	Charge, Assembly Demolition M183 Com	2
M766	Igniter, M60 for Time Blasting Fuse	25

ML03	Firing Device, Demolition Multi-Purp	10
MN08	Igniter, Time Blasting Fuse with Sho	120
WHO6	Guided Missile, BTM-71D-3B (TOW-1 Pr	24

3. COLLECTIVE TRAINING (5000-Level). The following table lists the Class V requirements for the 5000-Level collective events (Platoon).

DODIC	NOMENCLATURE	TOTAL
A059	Cartridge, 5.56mm Ball M855 10/Clip	140
A063	Cartridge, 5.56mm Tracer M856 Single Round	1400
A064	Cartridge, 5.56mm 4 Ball M855/1 Tracer M856 Linked	140
A075	Cartridge, 5.56mm Blank M200 Linked	1320
A080	Cartridge, 5.56mm Blank M200 Single Round	1320
A111	Cartridge, 7.62mm Blank M82 Linked	65
A131	Cartridge, 7.62mm 4 Ball M80/1 Tracer M62 Linked	31
A143	Cartridge, 7.62mm Ball M80 Linked	31
A358	Cartridge, 9mm TP-T M939 for AT-4 Trainer	31
A576	Cartridge, Caliber .50 4 API M8/1 AP	31
A606	Cartridge, Caliber .50 API MK211 Mod 0 Single Round	31
A940	Cartridge, 25mm TPDS-T M910 Linked	180
A976	Cartridge, 25mm TP-T M793 Linked	36
AX11	Cartridge, 9mm Spotting Rifle MK212	560
B504	Cartridge 40mm Green Star Parachute	296
B505	Cartridge, 40mm Red Star Parachute M	44
B506	Cartridge, 40mm Red Smoke Ground M	88
B508	Cartridge 40mm Green Smoke Ground	72
B509	Cartridge 40mm Yellow Smoke Ground	40
B519	Cartridge, 40mm Target Practice M781	40
B535	Cartridge, 40mm White Star Parachute M583/M583A1	40
BA12	Cartridge, 40mm Practice MK 281 Mod	40
C869	Cartridge, 81mm HE M889/M889A1 with	28
C870	Cartridge, 81mm Smoke Red Phosphorus	14
C871	Cartridge, 81mm Illuminating M853A1	36
G826	Grenade, Launcher Smoke Infrared Scr	36
G940	Grenade, Hand Green Smoke M18	36
G945	Grenade, Hand Yellow Smoke M18	36
G955	Grenade, Hand Violet Smoke M18	36
G982	Grenade, Hand Practice Smoke, TA M83	36
HA34	Rocket, SMAW HE 83mm Assault MK 79 MOD 0 (Thermobaric)	36
HX05	Rocket, 83mm HE Dualmode	36
L306	Signal, Illumination Ground Red Star	140
L307	Signal, Illumination Ground White Star Cluster M159	1400
L311	Signal, Illumination Ground Red Star	140
L312	Signal, Illumination Ground White Star Parachute M127A1	1320
L314	Signal, Illumination Ground Green Star Cluster M125A1	1320
L323	Signal, Smoke Ground Red Parachute M	65
L324	Signal, Smoke Ground Green Parachute	31
WHO5	Guided Missile, BTM-71D-3B (TOW-1 Pr	31

4. COLLECTIVE TRAINING (3000/4000-Level). The following table lists the Class V requirements for the 3000/4000-Level collective events (Section).

DODIC	NOMENCLATURE	TOTAL
A059	Cartridge, 5.56mm Ball M855 10/Clip	1380
A063	Cartridge, 5.56mm Tracer M856 Single Round	748
A064	Cartridge, 5.56mm 4 Ball M855/1 Tracer M856 Linked	2400
A075	Cartridge, 5.56mm Blank M200 Linked	1600
A080	Cartridge, 5.56mm Blank M200 Single Round	660
A111	Cartridge, 7.62mm Blank M82M82 Linked	800
A131	Cartridge, 7.62mm 4 Ball M80/1 Tracer M62 Linked	7150
A143	Cartridge, 7.62mm Ball M80 Linked	800

A358	Cartridge, 9mm TP-T M939 for AT-4 Trainer	20
A576	Cartridge, Caliber .50 4 API M8/1 API-T M20 Linked	200
A606	Cartridge, Caliber .50 API MK211 Mod 0 Single Round	20
A940	Cartridge, 25mm TPDS-T M910 Linked	820
A976	Cartridge, 25mm TP-T M793 Linked	870
AX11	Cartridge, 9mm Spotting Rifle MK212	15
B504	Cartridge 40mm Green Star Parachute	4
B505	Cartridge, 40mm Red Star Parachute M	4
B506	Cartridge, 40mm Red Smoke Ground M	4
B508	Cartridge 40mm Green Smoke Ground	4
B509	Cartridge 40mm Yellow Smoke Ground	4
B519	Cartridge, 40mm Target Practice M781	32
B535	Cartridge, 40mm White Star Parachute M583/M583A1	4
BA12	Cartridge, 40mm Practice MK 281 Mod	80
C869	Cartridge, 81mm HE M889/M889A1 with PD Fuze M935	144
C870	Cartridge, 81mm Smoke Red Phosphorus M819 MTSQ Fuze	32
C871	Cartridge, 81mm Illuminating M853A1 with MTSQ Fuze M772	28
G826	Grenade, Launcher Smoke Infrared Scr	12
G940	Grenade, Hand Green Smoke M18	4
G945	Grenade, Hand Yellow Smoke M18	4
G955	Grenade, Hand Violet Smoke M18	4
G982	Grenade, Hand Practice Smoke, TA M83	12
HA34	Rocket, SMAW HE 83mm Assault MK 79 MOD 0 (Thermobaric)	4
HX05	Rocket, 83mm HE Dualmode	3
HX07	Rocket, 83mm HEAA Practice	4
L306	Signal, Illumination Green Star Para	4
L307	Signal, Illumination Ground White Star Cluster M159	4
L311	Signal, Illumination Ground Red Star	4
L312	Signal, Illumination Ground White St	6
L314	Signal, Illumination Ground Green Star Cluster M125A1	6
L323	Signal, Smoke Ground Red Parachute M	4
L324	Signal, Smoke Ground Green Parachute	4
WH06	Guided Missile, BTM-71D-3B (TOW-1 Pr	8

4. INDIVIDUAL TRAINING (2000-Level). The following table lists the annual Class V requirements by MOS for individual formal school training and follow-on individual sustainment/MOJT training. This table only accounts for individual Marine requirements and does not account for training support ammunition such as demonstration ammunition. There are no 1000-level Class V requirements.

0303		
DODIC	FORMAL SCHOOL TRAINING	ANNUAL SUSTAINMENT/MOJT TRAINING
A131	400	1200
A940	18	72
A976	18	72
0313		
DODIC	FORMAL SCHOOL TRAINING	ANNUAL SUSTAINMENT/MOJT TRAINING
A131	1680	3760
A940	338	702
A976	318	662

LAR T&R MANUAL

APPENDIX E

TRAINING MODELING AND SIMULATION SYSTEMS

Provided is a listing of applicable Simulators/Simulations available to improve training for both individual Marines and unit training in the Marine Corps. For more information regarding training Modeling & Simulation (M&S) Systems, review website:

<https://ehqmc.usmc.mil/org/mccdc/TECOM/directorates/MTSB/Internal/default.aspx>

1. **Supporting Arms Virtual Trainer (SAVT)** is a fixed-site, partial dome (260 X 60 degree), virtual immersive training environment for Joint Terminal Attack Controller (JTACs), Forward Air Controllers (FACs), and Joint Forward Observers (JFOs). SAVT provides a "hands-on," immersive, mission-based, combined arms training environment. The personnel shall use training scenarios that require placement of tactical ordnance on selected targets using Joint Close Air Support (JCAS) procedures and observed fire procedures for Naval Surface Fire Support (NSFS), Artillery and Mortar fire. SAVT will provide a briefing and after action room for a group of students to monitor, review mission-based training events, and conduct after-action discussions. SAVT trains Marines to approved standards of training and readiness (T&R) tasks.

2. **Indoor Simulated Marksmanship Trainer (ISMT)** is an interactive three dimensional audio/video weapons simulator that provides enhanced small arms training in marksmanship, weapons employment, indirect fire, and tactical decision-making for Marines. The ISMT simulates range firing for basic infantry weapons, tactical employment training, call for fire, and shoot/no shoots decision-making drills. The ISMT can be utilized to train individuals, fire teams, and squads effectively and efficiently to the approved standards of combat skills and readiness.

3. **Operator Driver System (ODS)** is a high fidelity immersive technical skills trainer for teaching Marines how to safely drive select commonly fielded tactical wheeled vehicles MTVR, HMMWV, and Mine Resistant Armored Protected (MRAP) Category I and II Cougar and Cat III Buffalo variants. The ODS is an interactive, reconfigurable training device which provides realistic feedback to the student through the steering wheel, driver pedals, and dashboard controls that replicate the experience of driving the actual selected vehicle. The ODS models the effects of wind, temperature, precipitation, traction, tire pressure, and road surfaces on the handling characteristics of the selected tactical vehicle and used to provide both driver entry level and driver sustainment level training. This training capability provides valuable rehearsal time for drivers, with the ultimate intent of teaching Marines how to safely drive selected field tactical wheeled vehicles. ODS trains Marines to approved standards of training and readiness (T&R) tasks.

4. **Combat Convoy Simulator (CCS)** is an interactive immersive training environment for convoy operations during combat, focusing on command and control. Other training capabilities include call for fire, call for close air support, mounted patrols, logistics support, high target extraction, MEDEVAC, and procedures for use of weapons in compliance with rules of engagement (ROE) and local TTP's. A single CCS suite of six vehicles provides for individual, crew, and platoon level training (up to 30 Marines at a time). The CCS trains Marines to approved standards of combat skills and readiness.

5. **Combat Vehicle Trainer System (CVTS)** consists of three separate training systems: M1A1 Main Battle Tank, the Light Armored Vehicle - 25 Variant (LAV-25), and the Assault Amphibious Vehicle (AAV). CVTS is used by the Operational Forces and formal schools to train crew, section, and platoon gunnery and tactical training skills. CVTS provides familiarization, proficiency, sustainment, and cross-training at each crew position and as a full-crew. An instructor/operator is able to control exercise selection, observe crew member actions, and conduct after-action reviews with the crews. CVTS trains M1A1, LAV-25, and AAV crew members to approved standards of combat skills and readiness.

6. **Family of Egress Trainers (FET)** consists of multiple Underwater Egress Training (UET) devices and Dry Rollover Egress Training Devices (DRET). All FET training is designed to teach egress principles.

UET devices with accompanying breathing devices are:

- a. **Modular Amphibious Egress Trainer (MAET)** provides an underwater escape trainer for passengers with generic fuselage sections representing vertical flight platforms.
- b. **Shallow Water Egress Trainer (SWET)** is a single seat egress trainer and is used in conjunction with the MAET platform.
- c. **Submerged Vehicle Egress Trainer (SVET)** is a split cab with one side that replicates a HMMWV and the other the crew compartment of an AAV for the instruction of underwater egress and is operated at the same location as the MAET. SVET allows service members the ability to have a controlled egress from a vehicle platform while submerged and inverted.

DRET devices are:

- a. **HMMWV Egress Assistance Trainer (HEAT)** assists service members in teaching the proper SOP's for the orderly egress of a rolled vehicle. HEAT is able to roll 360 degrees and it allows the occupants to experience a rollover under controlled conditions to better ensure the egress of a rolled wheeled platform.
- b. **MRAP Egress Trainer (MET)** provides firsthand knowledge of the imminent rollover angles of the MRAP and allows practical application of egress procedures in the event of a rollover.

7. **MAGTF Tactical Warfare Simulation (MTWS)** is a simulation program that can be used to train battle staffs from Battalion through MEF, Marine Forces Reserve (MARFORRES) and internal MEF components i.e., Ground Combat Element, Aircraft Combat Element, and Combat Service Support Element. The primary mission of MTWS is two-fold: to provide a realistic combat environment for commanders and their staffs to refine their decision-making skills and to

assist in the Command and Control (C2) aspects of tactical field exercises. It provides military personnel with the opportunity to experience and acquire skill in combat operations without the expense and risk of taking real troops to the field.

**8. Combined Arms Command and Control Trainer Upgrade System (CACCTUS)**

provides an institutional means to effectively train Marine staffs and units in all aspects of effectively integrating combined arms assets. The CACCTUS capability provides the full range of combined arms staff training and provides state of the art modeling and simulation networking technology to provide realistic Combined Arms Fire Support for the Marine Air Ground Task Force (MAGTF). The high resolution combat simulation provides the ability to provide ground truth in the exercise, stimulate organic C2 Systems, visually display the impact of supporting arms fires and realistically portray the coordinated actions of friendly forces and the action/reaction of the enemy maneuver forces. The automated communication system replicates tactical communication nets required for command and control of exercising units allowing the training audience to communicate normal warfighting communications and process orders and other information/questions to response cell controllers. CACCTUS provides an automated after action review capability for live and simulated training thereby allowing the Marine Corps to meet its service training requirements.

**9. Deployable Virtual Training Environment (DVTE)** is a deployable laptop PC based simulation system capable of emulating organic and supporting Infantry Battalion weapons systems and training scenarios to facilitate T&R based training. DVTE provides each installation and deployed Marine Forces with MAGTF (MEU level) Staff training, individual and collective skills sustainment, rapid planning, and almost spontaneous mission rehearsal capability. DVTE increases training of individual and unit core skills enhancing a rapid, innovative and interactive small-unit leader decision making, and increased combined arms Training and pre-certification capability. DVTE is accredited by the Joint Fires Support Executive Steering Committee (JFS ESC) to replace up to two live controls for Joint Terminal Attack Control (JTAC) qualification.

Below is a list of the DVTE training applications/capabilities:

- a. **Virtual Battlespace 2 (VBS2)** is an interactive, three-dimensional synthetic environment in which small unit tactics may be practiced among team members. Photo-realistic terrain, user created mission scenarios, and variable environmental conditions enhance the team training experience. Mission planning and mission rehearsal can be executed from squad to platoon level. VBS2 can be used to support Fire Support Training, convoy operations and tactical guided discussions.
- b. **Recognition of Combatants (ROC)** a series consisting of applications covering Improvised Explosive Device (ROC-IED), Suicide Bomber (ROC-SB), Vehicle (ROC-V), and Aerial (ROC-Aerial) are self paced computer based training tools designed to improve awareness and recognition of various combatant capabilities and functional considerations.
- c. **Operational and Tactical Language and Cultural Training System (OTCLTS)** is a self paced language and cultural training application that allows the user to learn Iraqi Arabic, Indonesian, Pashto, Dari, and French languages along with cultural considerations.



- d. **Forward Observer PC Simulator (FOPCSIM)** is an individual Fires trainer which provides training on the basic concepts of fire support. FOPCSIM is a procedural trainer for artillery and mortar Call for Fire. FOPCSIM is also the forward observer component of the Deployable Virtual Training Environment (DVTE) Combined Arms Network (CAN) that provides a training tool for integration of artillery and close air support with maneuver forces.
- e. **Combined Arms Planning Tool (CAPT)** is a standalone tool that can be used to enter and test all elements of your fire support plan. Doctrinal rules have been incorporated into the program, so that once the fire support plan is entered, CAPT runs a "rules based" test on the plan to identify potential trouble areas.
- f. **Combined Arms Network (CAN)** is a computer based training tool that provides standard based training for individual Forward Observers, Forward Air Controllers and Joint Terminal Attack Controllers (JTAC) as well as team training for company fire support teams (FIST). CAN currently support JTAC/JFO certification training under the Joint Air Controllers T&R Manual.