

# Training and Evaluation Outline Report

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Task Number: 43-SEC-0008

Task Title: Perform Ground Support Equipment Maintenance, Quality and Control Inspections and Classifications

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Foreign Disclosure: **FD1** - This training product has been reviewed by the training developers in coordination with the CASCOM, Fort Gregg-Adams, Virginia foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

## Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary	Source Information
	AR 1-201	Army Inspection Policy	Yes	No	
	AR 750-1	Army Materiel Maintenance Policy	Yes	No	
	AR 750-43	Army Test, Measurement, and Diagnostic Equipment <a href="http://www.apd.army.mil/pdf/files/r750_43.pdf">http://www.apd.army.mil/pdf/files/r750_43.pdf</a>	Yes	No	
	ATP 4-31	Recovery and Battle Damage Assessment and Repair (BDAR)	Yes	No	
	ATP 4-33	Maintenance Operations	Yes	No	
	ATP 4-42	Material Management, Supply, and Field Services Operations	Yes	Yes	
	DA PAM 750-1	Army Materiel Maintenance Procedures	Yes	No	
	DA PAM 750-3	Guide to Field Maintenance Operations	Yes	No	
	SB 708-21	FEDERAL SUPPLY CLASSIFICATION: PART 1, GROUPS AND CLASSES (CATALOGING HANDBOOK H2-1)	Yes	No	
	UNIT SOP	Unit / Unit's Standard Operating Procedure SOP	Yes	No	

**Conditions:** The unit is supporting assigned operations from its established location. The Ground Support Equipment (GSE) Repair Section has received requests from supported and organic units to perform field maintenance. The GSE Repair Section base shop is established and prepared to provide field level maintenance, inspection, and classification of equipment. All Test, Measurement, and Diagnostic Equipment (TMDE), authorized special tools and required test set equipment are serviceable, calibrated (if required), and on-hand. ATP 4-42, ATP 4-33, required technical publications, and the section's internal and external Standard Operating Procedures (SOP) are available.

Threat capabilities cover a full spectrum including information gathering; hostile force sympathizers; terrorist activities including suicide bombings; and conventional, air supported, and reinforced squad operations in a chemical, biological, radiological, and nuclear (CBRN) environment. Must include four or more operational environment conditions that includes a hybrid threat, various types of terrain, time restrictions, social (population, cultural & language implications). Additional variables may include information (media, population perception), infrastructure (bridges, electricity, roads, urban area), or economic (local vendors, contractual & supply implications).

All communications systems are subject to disruption due to a number of factors, including enemy activity, weather, equipment failure, and interruptions or damage to the civil and military infrastructure.

## Operational Environment:

1. Military: Primary threat consists of both conventional and irregular forces. These forces may infiltrate the area of operations in squad or platoon-sized elements, with the objectives of intelligence gathering, harassment, disruption, or complete destruction of friendly forces. Primary means of engagement is that of ambush using light infantry weapons, and often initiated by mines or improvised explosive devices (IED). In addition, terrorists, criminal elements, and enemy sympathizers may engage by means of ambush, kidnapping, or any type of IED attack, and may engage in efforts to turn the local population against friendly forces.

2. Physical terrain: Terrain in which operations may be conducted covers the entire geographic spectrum, including urban to rural, flat to mountainous, desert to swamp, and tropical to arctic environments.

3. Time: Time restrictions are as given in the warning/operations order. Extreme conditions, such as weather or CBRN contamination, have a detrimental effect on all factors of the Operational Environment, especially time.
4. Social: The population in the operational environment may be friendly, hostile, apathetic, or a combination of all three. This variable is subject to change on a day-to-day basis, and the commander must be continually cognizant of the latest intelligence. Cultural issues and language barriers may frustrate the ability to communicate with local nationals.
5. Political: Government may be democratic or authoritarian, and may be stable or unstable. Most OEs have at least two political rival political factions competing for power. Unstable government or a failed economy may drive unemployed workers to the streets, demonstrating and rioting. Attitude of the general population toward US Forces is mixed. Some regard US Forces as saviors, while others regard US Forces with contempt.
6. Economic: All economies are based primarily on either agriculture or manufacturing (goods), supplemented by substantial services. Other variables, such as weather or politics, will affect the economy in a given OE. In the event of a weak or failed economy, banks become insolvent, goods and subsistence become scarce, vendors have little to sell, and organized crime may control most of the markets.
7. Infrastructure: Infrastructure may become austere or totally fail due to enemy activity, economic conditions, or a failed government. Frequent disruptions in basic support, such as electricity and potable water, create unrest in the population. Highway and rail networks are critical in supporting military operations. In the event of failed infrastructure, road conditions, including bridges and tunnels, may require re-routing of convoys and general traffic. Off-road travel may at times be necessary.
8. Information. Media in the OE may be either government or commercially owned and controlled. Local media may appear friendly, but is likely to use media events as propaganda against US Forces and their allies. The local national (LN) populations perception of US Forces may be colored by media propaganda, and is subject to change frequently. Both government and underground media sources are capable of implementing information warfare (INFOWAR) against US Forces in various forms of propaganda, using all common forms of media. Some iterations of this task should be performed in MOPP 4.

**Standards:** The unit performs Ground Support Equipment field maintenance, inspections, and classifications In Accordance With (IAW) ATP 4-42, required Technical Manuals (TM), unit Standard Operating Procedures (SOP), and the commanders guidance.

To obtain a T, this task must be conducted during an external evaluation, in a dynamic and complex environment with four or more Operational Environment (OE) variables and a hybrid threat at night with 75% or more leaders present and 80% or more Soldiers present. The unit must receive a GO on 80% of the performance measures, ALL of the critical performance measures, and at least 80% GO on the leader performance measures.

**LEADER STATEMENT:** For the purpose of this task, a leader is defined as a Soldier who is in an officer, warrant officer, non-commissioned officer (NCO), or civilian position designated by grade, paragraph, and title on the units Table of Organization and Equipment (TOE). Leaders may also be anyone assigned to the unit and designated as such by the unit commander, i.e., Subject Matter Experts (SME) who possess the requisite knowledge and skill sets to perform a particular task (for example, conduct a specific operation, or operate technical equipment).

**Live Fire:** No

**Objective Task Evaluation Criteria Matrix:**

Plan and Prepare		Execute					Evaluate			
Operational Environment	SQUAD & PLT	Training Environment (L/V/C)	% Leaders present at training/authorized	% Present at training/authorized	External evaluation	Performance measures	Critical performance measures	Leader performance measures	Evaluator's observed task proficiency rating	Commander's assessment
Dynamic (Single Threat)										
Static (Single Threat)	Day	60-74%	60-79%	No	65-79% GO	<All	75-84% GO	P	P	
		<=59%	<=59%		<65% GO		<=74% GO	U	U	

**Remarks:** Task steps and performance measures are intended to be arranged in a logical order. However, they are not intended to be interpreted as a "required order" for performance. Not every performance task steps and/or performance measures of collective task will be applicable to every unit.

Prior to evaluation, coordination should be made between the evaluator, the unit itself, and the evaluated units' higher headquarters (if required) to determine the task step(s) and/or performance measure(s) that must be performed during the evaluation or identify performance steps/measures that do not apply to the unit and may be omitted and identified as N/A during the evaluation. However, when evaluating this task, only the CRITICAL performance steps and measures will be used to calculate the overall percentage total in the training evaluation criteria matrix.

Training begins with the execution of pre-combat checks and inspections. Training ends when designated training objectives for the particular training events or exercises are performed to Army standard. Unit leadership should conduct an After-Action Report (AAR) to determine future training requirements for the unit.

Task Evaluation Criteria Matrix Operational Environment (OE) Definitions:

Static—a static training environment has aspects of operational variables needed to stimulate mission variables that are fixed throughout the units' execution of the task.

Dynamic—a dynamic training environment has operational variables and threat Tactics, Techniques, and Procedures (TTP) for assigned counter-tasks that change in response to the execution of friendly force tasks.

Complex—a complex training environment requires a minimum of four—terrain, time, military (threat), and social (population)—or more operational variables; brigade and higher units require all eight operational variables to be replicated in varying degrees based on the task being trained.

Single threat—a single threat in a training environment is a conventional force, irregular force, criminal element, or terrorist force.

Hybrid threat—a hybrid threat in a training environment uses diverse and dynamic combination of conventional forces, irregular forces, terrorist forces, and criminal elements unified to achieve mutually benefitting effects.

Task steps and measures were developed using the Plan, Prepare, Execute, and Assess (PPEA) construct to reinforce the operations process and is implied throughout the Training & Evaluation Outline (T&EO) as applicable.

**Notes:** 1. DISRUPTED COMMUNICATION NETWORKS: Leaders need to be able to command their formations when communication networks are disrupted, while on the move, and without perfect situational awareness. Training to become proficient in the use of analog data tracking systems, voice communications, and unaided navigation techniques requires significant amounts of repetition, particularly when integrating all of the elements of combat power. Habitual relationships, practiced standard operating procedures, and the use of battle drills can mitigate some of the risk and friction inherent in lost situational awareness.

2. REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS: Feedback is welcome to help improve this collective task. If errors are found, or if someone would like to recommend improvements to the performance steps and procedures in this collective task, please let us know. The preferred method is to submit a DA Form 2028 (Recommended Changes to Publications and Blank Forms) with recommended changes via email to [usarmy.gregg-adams.tradoc.mbx.cascom-g3-collective@army.mil](mailto:usarmy.gregg-adams.tradoc.mbx.cascom-g3-collective@army.mil) Recommended changes will be reviewed, validated to ensure approved Army or joint doctrine supports recommendation(s), and implemented as appropriate.

**Safety Risk:** Low

<b>Task Statements</b>
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**Cue:** The unit receives an order to perform field maintenance

<b>DANGER</b>
Alerts users to an operating procedure or practice, which if not strictly observed, could result in personal injury, loss of life, and/or damage to or loss of equipment.

<b>WARNING</b>
Alerts users to an operating procedure or practice, which if not correctly followed, could result in personal injury or loss of life.

<b>CAUTION</b>
Alerts users to an operating procedure or practice, which if not strictly observed, could result in damage to or destruction of equipment.



## Performance Steps and Measures

**NOTE:** Assess task proficiency using the task evaluation criteria matrix.

**NOTE:** Asterisks (\*) indicate leader steps; plus signs (+) indicate critical steps.

### STEP/MEASURE

GO	NO-GO	N/A
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#### Plan

+\* 1. Maintenance Control OIC/NCOIC and Ground Support Equipment (GSE) Repair Section OIC/NCOIC initiate Troop Leading Procedures (TLP) upon receipt or in anticipation of a mission.

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+\* 2. Maintenance OIC/NCOIC and GSE Repair Section OIC/NCOIC conduct a thorough mission analysis of the higher headquarters order to identify and determine equipment maintenance requirements in accordance with ATP 4-42 and ATP 4-33

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a. Define the concept of support to all organic and customer units as it pertains to GSE maintenance operations

b. Review GSE procedures

c. Review equipment service procedures

d. Plan maintenance collection and classification points

e. Review controlled exchange and cannibalization guidance

Note: Controlled exchange, cannibalization, and BDAR authorizations are in OPORD Annex F, Sustainment (Field Maintenance)

+\* 3. Maintenance Control OIC/NCOIC issue initial guidance and priorities

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#### Prepare

+\* 4. Maintenance OIC/NCOIC and GSE Repair Section OIC/NCOIC review the company Risk Assessment and Section SOP requirements to determine acceptable risk levels for maintenance operations, balancing risks and priorities to the overall success of the operation.

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Note: Risk is defined as a probability or threat of damage, injury, liability, loss or other negative occurrence that is caused by external or internal vulnerabilities that may be neutralized by preemptive action. Risk assessment is a process of identifying, analyzing, and prioritizing programmatic and critical risks which includes quantifying risks in terms of performance, schedule, and cost. Risks identified in the risk assessment become critical elements of the source selection plan and the RFP. These risks have a common thread that starts with the requirement, ties to the risk assessment, then to the RFP, proposal, evaluation and contract execution.

a. Identify safety procedures

b. Identify environmental stewardship procedures

+\* 5. GSE Repair Section OIC/NCOIC and personnel prepare base shop operations

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a. Establish maintenance collection point(s) and power generation

b. Prepare necessary forms and publications IAW internal Standard Operating Procedures (SOP)

c. Prepare required tool kits

d. Prepare common and special test equipment

+\* 6. GSE Repair Section OIC/NCOIC receive and assign maintenance request(s)

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a. Coordinate for transportation of equipment (If required)

b. Coordinate for additional lift equipment (If required)

#### Execute

+\* 7. GSE Repair Section OIC/NCOIC supervise maintenance operations

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a. Supervise internal production control procedures

b. Direct GSE maintenance section operations

c. Manage all GSE maintenance section assets

(1) Equipment service(s)

(2) Equipment calibration(s)

d. Conduct Quality Assurance/Quality Control (QA/QC) inspection(s)

e. Provide technical assistance on ground support equipment

f. Retain maintenance evacuation documentation for equipment accountability

g. Submit equipment and personnel status reports to the platoon headquarters

h. Enforce safety procedures

i. Enforce environmental stewardship procedures

+\* 8. GSE Repair Section personnel perform base shop operations

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a. Inspect, classify, and repair ground support equipment

(1) Complete a DA Form 2404, 2407, and 5988-E

(2) Attach a condition code tag to the equipment IAW internal SOP

(3) Annotate the estimated cost of repair parts and materials needed to restore the equipment to serviceable condition on DA Form 2407/5988-E

(4) Store equipment in a secure area until receipt of repair parts or evacuation

(5) Prepare and process Warranty Claims (if required)

b. Notify section leaders that work orders are completed

c. Practice safety procedures

d. Practice environmental stewardship procedures

**Assess**

+\* 9. Maintenance OIC/NCOIC and Ground Support Equipment (GSE) Repair Section OIC/NCOIC substantiated maintenance timelines and completed tasks IAW unit SOP, current regulations, policies, and commander's guidance


+\* 10. Maintenance OIC/NCOIC and GSE Repair Section OIC/NCOIC confirmed all technical inspections were performed according to equipment's maintenance and serviceability standards applicable to the maintenance level performing the repair

a. Confirmed work requests are completed IAW unit SOP, current regulations, policies, and commander's guidance

b. Confirmed shop stock/bench stock inventories are up-to-date and conducted IAW unit SOP, current regulations, policies, and commander's guidance

+\* 11. Maintenance OIC/NCOIC and GSE Repair Section personnel conducted an After-Action Review (AAR) and recorded findings to assess all maintenance areas to improve the Section's performance for future operations (When mission allows)


+\* 12. Maintenance OIC/NCOIC and GSE Repair Section OIC/NCOIC conducted a thorough mission and maintenance analysis to determine if the need for reinforcing maintenance support is needed (if required)

Task Performance Summary Block										
Training Unit			ITERATION							
_____			1		2		3		4	
Date of Training per Iteration:										
Day or Night Training:			Day / Night		Day / Night		Day / Night		Day / Night	
			#	%	#	%	#	%	#	%
Total Leaders Authorized		% Leaders Present								
Total Soldiers Authorized		% Soldiers Present								
Total Number of Performance Measures		% Performance Measures 'GO'								
Total Number of Critical Performance Measures		% Critical Performance Measures 'GO'								
Live Fire, Total Number of Critical Performance Measures		% Critical Performance Measures 'GO'								
Total Number of Leader Performance Measures		% Leader Performance Measures 'GO'								
MOPP LEVEL										
Evaluated Rating per Iteration T, P, U										

**Mission(s) supported:** None

**MOPP 4:** Sometimes

**MOPP 4 Statement:** Some iterations of this task may be performed in Mission-Oriented Protective Posture (MOPP) Level 1-4 as directed by the commander and/or unit leaders. At MOPP 4, performance degradation factors increase mission completion time. Enforce compliance with commander's guidance and applicable unit SOPs when conducting operations in all stages of MOPP.

**NVG:** Never

**NVG Statement:** Night vision goggles are not required to conduct this task. However, they may be required when conducting sustainment unit operations, during movement, or Soldier duties as assigned.

**Prerequisite Collective Task(s):** None

**Supporting Collective Task(s):**

Step Number	Task Number	Title	Proponent	Status
1.	43-TM-0002	Perform Maintenance Surge Team Functions	43 - Maintenance (except missile) (Collective)	Approved
1.	71-TM-5100	Conduct Troop Leading Procedures	71 - Mission Command (Collective)	Approved
7.	43-SEC-7034	Perform Technical Inspections	43 - Maintenance (except missile) (Collective)	Approved
7.	43-SEC-1503	Perform Battlefield Damage Assessment Repair (BDAR) Operations	43 - Maintenance (except missile) (Collective)	Approved

**OPFOR Task(s):** None

**Supporting Individual Task(s):**

Step Number	Task Number	Title	Proponent	Status
2.	091-MCST-4002	Plan Maintenance Operations	091 - Ordnance (Individual)	Approved
7.	091-MCST-3003	Establish Maintenance Operations	091 - Ordnance (Individual)	Approved
7.	091-MCST-3005	Enforce Command Maintenance Discipline Program (CMDP)	091 - Ordnance (Individual)	Approved
7.	091-MCST-4003	Manage Maintenance Operations	091 - Ordnance (Individual)	Approved
7.	091-MCST-3006	Conduct Quality Assurance and Quality Control (QA/QC) Operations	091 - Ordnance (Individual)	Approved
8.	091-91C-3018	Complete Diagnostics of Mechanical Systems on Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) Equipment	091 - Ordnance (Individual)	Approved
8.	091-91C-3019	Complete Diagnostics of Electrical Systems on Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) Equipment	091 - Ordnance (Individual)	Approved
8.	091-91C-3021	Complete Diagnostics of Fuel System on Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) Equipment	091 - Ordnance (Individual)	Approved
8.	091-91C-3020	Complete Diagnostics of Refrigerant Systems on Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) Equipment	091 - Ordnance (Individual)	Approved
8.	091-91J-1031	Troubleshoot malfunction of the Containerized Batch Laundry (CBL) electrical system	091 - Ordnance (Individual)	Approved
8.	091-91D-3131	Assess Unit, Command Post, or Tactical Operations Center Electrical Power Requirements	091 - Ordnance (Individual)	Approved
8.	091-91C-3017	Perform a Quality Control/Quality Assurance Inspection on Ground Support Equipment.	091 - Ordnance (Individual)	Approved
8.	091-91J-1026	Troubleshoot Electrical Malfunctions on the Laundry Advanced System (LADS)	091 - Ordnance (Individual)	Approved
8.	091-91D-2002	Inspect Tactical Power Network unit, Command Post, or Tactical Operations Center Central Power Grid Layout	091 - Ordnance (Individual)	Approved

**Supporting Drill(s):** None

**Supported AUTL/UJTL Task(s):**

Task ID	Title
ST 4.1	Coordinate Equipment Maintenance
ST 4.3.2.3	Coordinate Maintenance Services
OP 4.3	Provide Equipment Maintenance

**TADSS**

TADSS ID	Title	Product Type	Quantity
GTA 21-08-001	Composite Risk Management Quick Reference Booklet	GTA	1
GTA 25-06-023	After Action Review Techniques	GTA	1
GTA 05-08-002	Environmental-Related Risk Assessment	GTA	1
GTA 09-10-046	Small Unit Leader's Card (Intermediate Maintenance Light)	GTA	1
GTA 01-14-001	Battle Damage Assessment and Repair (BDAR) Smart Book	GTA	1

### Equipment (LIN)

LIN	Nomenclature	Qty
No equipment specified		

### Materiel Items (NSN)

NSN	LIN	Title	Qty
No materiel items specified			

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card. It is the responsibility of all Soldiers and Department of the Army civilians to practice environmental stewardship. All operations conducted on Army installations must comply with federal, state, local, and host nation environmental requirements and applicable Army regulations. Army personnel will maintain compliance at all sites in the U.S. and abroad, which will in turn establish good relationships with environmental officials and local communities. Environmental risk management consists of the following steps:

- a. Identify Hazards. Leaders identify environmental hazards during METT-TC(I) analysis. An environmental hazard is a condition with the potential of polluting air, soil, or water, or damaging or destroying cultural and historical artifacts.
- b. Assess the Hazard. Leaders analyze potential severity of environmental degradation using the Environmental Risk Assessment. This assessment implements a risk impact value, which is defined as an indicator of the severity of environmental degradation. This value is applied to an environmental risk assessment matrix and used to quantify environmental risk resulting from the operation as high, medium, or low.
- c. Make Environmental Risk Decisions. Leaders make decisions and develop measures to reduce high environmental risks.
- d. Brief Chain of Command. Leaders brief the chain of command, to include the installation environmental office, if applicable, on proposed plans and pertinent high-risk environmental matrices. Risk decisions are made at a level of command that corresponds to the degree of risk.

See GTA 05-08-002, Environmental-Related Risk Assessment, for detailed instructions.

Reference: ATP 3-34.5, Environmental Considerations.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with current Risk Management Doctrine. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW current CBRN doctrine. Leaders must verify the validity of all training and evaluation plans from a safety viewpoint, and conduct training at levels consistent with the abilities of the Soldiers being trained. They must also instill an awareness of individual safety in all subordinate leaders and Soldiers. All Soldiers must constantly be alert for and avoid situations that may result in injury or death. Be aware of the following:

- a. At the training site, leaders must establish training safety overview procedures. Safety procedures should emphasize adherence to standards, consideration of environmental factors (i.e., wet bulb), risk assessment, and identification of factors contributing to and aiding in the prevention of accidents.
- b. Leaders must know how to balance risks against training requirements, and monitor conditions for safety and health hazards in order to control or eliminate them). The welfare of the Soldier is the primary factor in all situations.
- c. Leaders must establish a buddy system for safety measures. Soldiers should maintain a safety watch on each other, with emphasis on individual safety training and first aid responsibilities. All unsafe conditions and unsafe acts must be recognized and reported. Soldiers must be alert to human error and know the capabilities and limitations of the vehicles and equipment they use. Establishment of proper safety procedures preserves troop strength by preventing personnel loss through accidents.

For further guidance, see ATP 5-19, Risk Management.