

551-88U-4405
Recommend Railway Maintenance Functions
Status: Approved

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

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

Conditions: Assigned as a Railway Specialist given the requirement to advise COCOM/Host Nation personnel on how to administer railway maintenance functions, given PPE, a complete risk assessment, references, transportation plan, radio, appropriate rail tools, DA Form 2407 and DA Form 862, day or night, in all weather conditions, and in an operational environment. Some iterations of this task should be performed in MOPP 4.

Standards: Recommend railway maintenance functions without errors IAW The Army Maintenance Management System without causing injury to personnel or damage to equipment.

Special Conditions: None

Safety Risk: Low

MOPP 4: Sometimes

Task Statements

Cue: You have been given the task of advising COCOM/Host Nation personnel how to administer railway maintenance functions.

DANGER
None

WARNING
None

CAUTION
None

Remarks: None

Notes: None

Performance Steps

1. Confirm routine maintenance of railcars.
2. Confirm inspection of railcars.
3. Confirm mechanical repairs of railcars.
4. Confirm routine maintenance of locomotives.
5. Confirm inspection of locomotives.
6. Confirm mechanical repairs of locomotives.
7. Confirm electrical repairs of locomotives.
8. Confirm compliance of subordinates with rail safety procedures.
9. Confirm technical guidance provided to lower grade personnel.
10. Confirm troubleshooting of electrical system components.
11. Confirm troubleshooting of cooling system components.
12. Confirm troubleshooting of air brake system components.
13. Confirm troubleshooting of lube oil system components.
14. Confirm troubleshooting of diesel engine components.
15. Confirm re-railing operations.
16. Confirm performance of initial railway equipment inspections.
17. Confirm performance of final rail equipment inspections.
18. Confirm performance of initial terminal air brake test for outbound trains.
19. Confirm performance of safety inspection of equipment on outbound trains.
20. Administer railway shop functions by ensuring the following are completed:
 - a. Confirm Locomotive Direct Support (DS) Shop Operations.
 - (1) Prioritize maintenance activities.
 - (a) Consult transportation plan for trains to be run in next 24 hours.
 - (b) Review Initial Shop Inspection reports.
 - (c) Review enroute failures.
 - (d) Review locomotives "dead in consist."
 - (e) Review locomotives due in for inspection.
 - (f) Review locomotives in shop awaiting parts.
 - (2) Assign workloads.

- (a) Derailment support.
- (b) Contact maintenance.
- (c) In-shop maintenance.
- (d) Organizational maintenance support when requested.

(3) Confirm Class IX and Class III supplies.

(4) Perform QA inspections.

b. Confirm Rail Car Direct Support (DS) Shop Operations.

(1) Prioritize maintenance activities.

- (a) Review derailments.
- (b) Review Initial Shop Inspection reports.
- (c) Review railcars set out on line.
- (d) Review railcars in shop awaiting parts.
- (e) Review medium and heavy store bad order railcars.

(2) Assign workloads.

- (a) Derailment support.
- (b) Contact maintenance.
- (c) In-shop maintenance.
- (d) Organizational maintenance support when requested.

(3) Confirm Class IX and Class III supplies.

(4) Perform QA Inspections.

c. Confirm On Track Equipment Direct Support (DS) Shop Operations.

(1) Review reports (Appropriate forms).

- (a) Ensure that Equipment Data is properly filled out.
- (b) Ensure that Work Accomplished is properly filled out.

(2) Inspect equipment.

- (a) Check repairs.
- (b) Check actual work accomplished.

(3) Discuss repairs when any questions arise.

(4) Make adjustments or corrections to forms.

(5) File documents in the proper location.

21. Validate final railway shop inspections by ensuring the following are completed:

- a. Perform Final Locomotive Direct Support (DS) Shop Inspections.
 - (1) Review reports.
 - (2) Inspect Locomotive.
 - (a) Check repairs.
 - (b) Check actual work accomplished.
 - (3) Discuss repairs when any question arises.
 - (4) Make any adjustments or corrections to forms.
 - (5) Notify supervisor that review is complete.
- b. Perform Final Rail Car Direct Support (DS) Shop Inspections.
- c. Perform Final On Track Equipment Direct Support (DS) Shop Inspections.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Mark each performance measure either GO or NO-GO. The Soldier must complete all steps to receive a GO for each measure. All measures must be marked GO to receive an overall GO on the task. If the Soldier fails any performance measure, show what was done wrong and how to do it correctly.

Evaluation Preparation: Ensure that all materials required to perform the task are available. Tell the Soldier that he/she will be evaluated on administering railway maintenance functions.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Confirmed routine maintenance of railcars.			
2. Confirmed inspection of railcars.			
3. Confirmed mechanical repairs of railcars.			
4. Confirmed routine maintenance of locomotives.			
5. Confirmed inspection of locomotives.			
6. Confirmed mechanical repairs of locomotives.			
7. Confirmed electrical repairs of locomotives.			
8. Confirmed compliance of subordinates with rail safety procedures.			
9. Confirmed technical guidance provided to lower grade personnel.			
10. Confirmed troubleshooting of electrical system components.			
11. Confirmed troubleshooting of cooling system components.			
12. Confirmed troubleshooting of air brake system components.			
13. Confirmed troubleshooting of lube oil system components.			
14. Confirmed troubleshooting of diesel engine components.			
15. Confirmed re-railing operations.			
16. Confirmed performance of initial railway equipment inspections.			
17. Confirmed performance of final rail equipment inspections.			
18. Confirmed performance of initial terminal air brake test for outbound trains.			
19. Confirmed performance of safety inspection of equipment on outbound trains.			
20. Administered railway shop functions.			
21. Validated final railway shop inspections.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual	Yes	Yes
	GCOR	General Code of Operating Rules (GCOR), Seventh Edition	Yes	No

TADSS : None

Equipment Items (LIN): None

Materiel Items (NSN) :

Step ID	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.

AR 200-1 delineates TRADOC responsibilities to integrate environmental requirements across DOTMLPF and ensures all training procedures, training manuals, and training doctrine includes sound environmental practices and considerations. The Army's environmental vision is to be a national leader in environmental and natural resource stewardship for present and future generations as an integral part of all Army missions. Environmental protection is never completed. Continuously be alert to ways to protect our environment and reduce waste.

Leaders must ensure that their unit has an active and strong environmental program. They must understand the laws and know what actions to take. Leaders bring focus, direction, and commitment to environmental protection. Commanding officers should ensure the following environmental programs are in place and are being maintained:

- Hazardous materials program.
- Hazardous waste program.
- Hazardous communications program.
- Pollution prevention and hazardous waste minimization recycling program.
- Spill prevention and response plan program.

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.

All operations will be performed to protect and preserve Army personnel and property against accidental loss. Procedures will provide for public safety incidental to Army operations and activities and safe and healthful workplaces, procedures, and equipment. Observe all safety and/or environment precautions regarding electricity, cable, and lines. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required IAW AR 385-10, the Clean Air Act (CAA) and the CAA amendments, and the OSHA Hazard Communication standard.

Accidents are an unacceptable impediment to Army missions, readiness, morale, and resources. Decision makers at every level will employ risk management approaches to effectively preclude unacceptable risk to the safety of personnel and property affiliated with this task.

- (a) Take personal responsibility.
- (b) Practice safe operations.
- (c) Recognize unsafe acts and conditions.
- (d) Take action to prevent accidents.
- (e) Report unsafe acts and conditions.
- (f) Work as a team.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None

Knowledges :

Knowledge ID	Knowledge Name
K-551-P-0199	Knowledge of railway rolling stock inspection procedures
K-551-P-0186	Knowledge of re-railing operations
K-551-P-0200	Knowledge of locomotive maintenance requirements
K-551-P-0185	Knowledge of railway equipment
K-551-P-0197	Knowledge of railway rolling stock and components
K-551-P-0198	Knowledge of managing subordinates
K-551-P-0203	Knowledge of locomotive electrical systems and components
K-551-P-0204	Knowledge of railway equipment systems and components
K-551-P-0201	Knowledge of locomotive inspection procedures
K-551-P-0202	Knowledge of locomotive repair standards and procedures
K-551-P-0207	Knowledge of railway equipment inspections
K-551-P-0205	Knowledge of locomotive systems and components
K-551-P-0206	Knowledge of electrical troubleshooting techniques
K-551-P-0144	Knowledge of DA Form 2407

Skills :

Skill ID	Skill Name
551-S-0145	Ability to read, understand, and comply with unit SOP and local policies.
551-S-0150	Ability to keep accurate records
551-S-0144	Ability to read, understand, and comply with regulatory guidance.
S-551-P-0278	Ability to manage

ICTL Data : None