

551-88U-1405
Identify External Locomotive Systems and Components
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: In an operational environment, assigned as a Railway Specialist with the requirement to advise COCOM/Host Nation personnel on identifying external locomotive systems and components, given Personal Protective Equipment, complete risk assessment, locomotive, and references, day or night, in all weather conditions. Some iterations of this task should be performed in MOPP 4.

Standards: Identify external locomotive systems and components without causing injury to personnel or damage to equipment, all in accordance with applicable references.

Special Conditions: None

Safety Risk: Low

MOPP 4: Sometimes

Task Statements

Cue: Your team has just arrived at a new rail yard. You are tasked with advising the COCOM/Host Nation personnel on identifying external locomotive systems and components.

DANGER

None

WARNING

None

CAUTION

Working around live tracks is always dangerous. Follow all safety procedures outlined in the GCOR. Install portable derail or flag protection IAW GCOR and ATP 4-14.

Remarks: None

Notes: None

Performance Steps

1. Identify Truck Assembly
 - a. Road wheels
 - b. Axles
 - c. Truck springs
2. Identify Draft System
3. Identify Air Brake Components
 - a. Valves and gauges
 - b. Levers and rods
 - c. Brake cylinder
 - d. Air hoses
 - e. Air compressor
 - f. Brake shoes
4. Identify Safety Appliances
 - a. Handbrakes
 - b. Uncoupling levers
 - c. Running boards
 - d. Ladders
 - e. Sill steps
 - f. Handrail or safety railing
 - g. End platform

(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 identifying external locomotive systems and components.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Identified Truck Assembly.			
2. Identified Draft System.			
3. Identified Air Brake Components.			
4. Identified Safety Appliances.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	ATP 4-14	Expeditionary Railway Center Operations	Yes	No
	Air Brake and Train Handling Advance Sheets	Air Brake and Train Handling Advance Sheets	Yes	No
	EMD 645E	EMD 645E Maintenance Instructions	Yes	Yes
	MTO1	Management of Train Operation and Train Handling	Yes	No

TADSS : None

Equipment Items (LIN):

LIN	Name
NA1520	Case, Ear Plug
DA3045	Boots, Safety
L80358	Locomotive Diesel: 56-1/2 In Gauge 100 to 120 Ton DS
HA4052	Safety Glasses, Revision Sawfly E
DA159T	Vest Safety RV-1
J68064	GLOVES LTHR MN WORK 1

Material 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 : None

Skills : None

ICTL Data : None