

Summary Report for Individual Task  
551-88U-3335  
Analyze Train Make-Up  
Status: Approved

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

**Destruction Notice:** None

**Foreign Disclosure: FD6** - This product/publication has been reviewed by the product developers in coordination with the Fort Lee, VA foreign disclosure authority. This product is releasable to students from foreign countries on a case-by-case basis.

**Condition:** Assigned as a Railway Specialist advising COCOM/HN Personnel on the make-up of a train, given an Operations Order/ Operations Plan, Personal Protective Equipment (PPE), completed risk assessment, transportation plan, means of communication, operational rail yard, railcars, timetables, HAZMAT instructions, System Special Instructions (SSI), day or night, in all weather conditions, in an operational environment scenario. Some iterations of this task should be performed in MOPP 4.

**Standard:** Validate make-up of train by completed documentation and on-site checks. Ensure horsepower to tonnage ratio, train length restrictions, tonnage restrictions, HAZMAT restrictions, and train make-up and car compatibility are in accordance with System Special Instructions (SSI), timetables, HAZMAT instructions and Management of Train Operation and Train Handling (MTO).

**Special Condition:** None

**Safety Risk:** Medium

**MOPP 4:** Sometimes

<b>Task Statements</b>
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**Cue:** Your team has been assigned to assess a rail company. You have been tasked to analyze the train make-up.

**DANGER**

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

**WARNING**

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**CAUTION**

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**Remarks:** None

**Notes:** None

## Performance Steps

1. Verify transportation plan and timetable are consulted:
  - a. Review current status of yard.
  - b. Identify railcars requiring special handling.
  - c. Determine outbound blocks.
  - d. Determine short work.
  - e. Determine order to build trains.
  - f. Generate switch list(s).
  - g. Determine tonnage scheduled to train(s).
  - h. Determine motive power available.
  - i. Calculate horsepower to tonnage ratio of scheduled train.
  - j. Determine length scheduled to train(s).
  - k. Identify shortest in-service siding in timetable.
2. Confirm the estimated time to departure – backward plan events to depart train on time.
  - a. Time required by switch crew(s) to break-up inbound train(s) into outbound blocks of railcars.
  - b. Time required by switch crew(s) to double outbound blocks (in station order) and spot for air testing.
  - c. Time required to perform Class I air brake test.
    - (1) Performed by switch crew.
    - (2) Performed by car inspectors from Equipment Maintenance Platoon.
    - (3) Performed by outbound train crew.
  - d. Time required to remove bad order railcars.
  - e. Time required to double train together and test marker.
  - f. Time outbound train crew is rested or available.
3. Confirm railcars are switched into outbound blocks and spotted for air testing.
4. Verify that a Class I air test is completed.
5. Verify any bad order railcars are removed.

6. Confirm outbound train crew is ordered.
7. Confirm a wheel report is generated.
8. Confirm outbound train departs.
  - a. Participate in crew briefing as needed.
  - b. Coordinate yard activities to facilitate departure.
  - c. Report train as OS.

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** Score the Soldier GO if all performance measures are passed. Score the Soldier NO-GO if any performance measure is failed. If any performance measure is failed, tell the Soldier what was done wrong and how to do it correctly.

**Evaluation Preparation:** Setup: provide the Soldier a yardmaster, completed documentation, and a made-up train.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Verified transportation plan and timetable were consulted.			
2. Confirmed the time to departure – backward planned events to depart train on time.			
3. Confirmed railcars were switched into outbound blocks and spotted for air testing.			
4. Verified that a Class I air test was completed.			
5. Verified any bad order railcars were removed .			
6. Confirmed outbound train crew was ordered.			
7. Confirmed a wheel report was generated.			
8. Confirmed outbound train departed.			

**Supporting Reference(s):**

Step Number	Reference ID	Reference Name	Required	Primary
	ATP 4-14	Expeditionary Railway Center Operations	No	No
	ERG 2012	Emergency Response Guidebook 2012: A Guidebook For First Responders During the Initial Phase of a Dangerous Goods/Hazardous Materials Transportation Incident	Yes	No
	GCOR	GCOR General Code of Operating Rules	Yes	No
	MTO1	Management of Train Operation and Train Handling	Yes	No

**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 FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

It is the responsibility of all Soldiers and DA civilians to protect the environment from damage. AR 200-1 delineates TRADOC responsibilities to integrate environmental requirements across Doctrine, Organization, Training, Material, Leadership and Education, Personnel and Facilities (DOTMLPF) and ensure all training procedures; materials and doctrine include 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. This Training Support Package meets this standard.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET 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 FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

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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 :**

Task Number	Title	Proponent	Status
55-6-0007	Provide Rail Network Capability and Infrastructure Assessments	55 - Transportation (Collective)	Approved
55-6-0004	Coordinate Use of Host Nation or Contracted Rail Assets	55 - Transportation (Collective)	Approved
55-6-0006	Advise on employment of theater rail capabilities	55 - Transportation (Collective)	Approved
55-6-0003	Perform Rail Planning	55 - Transportation (Collective)	Approved