

**Summary Report for Individual Task
052-204-1202
Maintain Rigging/Hoisting Equipment
Status: Approved**

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

Condition: As a Power Line Distribution Specialist in a tactical or nontactical environment during scheduled or unscheduled maintenance when rigging equipment needs maintenance, you are given the applicable cleaning and maintenance supplies, the applicable manufacturer's literature, and the applicable personal protective equipment (PPE). This task should not be trained in MOPP.

Standard: Maintain rigging equipment by inspecting it, performing maintenance on it, and storing it as stated in the applicable manufacturer's literature.

Special Condition: None

Safety Level: Low

MOPP: Never

Task Statements

Cue: None

<p>DANGER</p> <p>FAILURE TO FOLLOW PROPER MAINTENANCE PROCEDURES MAY CAUSE IMMEDIATE DEATH OR PERMANENT INJURY.</p> <p>INCORRECT MAINTENANCE OF RIGGING EQUIPMENT MAY CAUSE IMMEDIATE PERSONAL INJURY AND/OR POSSIBLE DEATH AND DAMAGE TO EQUIPMENT.</p>

<p>WARNING</p> <p>ONLY APPROVED CLEANING MATERIALS SHOULD BE USED TO CLEAN LEATHER PRODUCTS. FAILURE TO COMPLY MAY CAUSE IMMEDIATE PERSONAL INJURY OR DAMAGE TO EQUIPMENT RESULTING IN DEFECTIVE EQUIPMENT.</p>
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<p>CAUTION</p> <p>Defective equipment should be repaired or replaced immediately and not used until correctly repaired or replaced.</p>
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Remarks: None

Notes: There are several different manufacturers of rigging equipment. Ensure that the appropriate manufacturer's literature is referenced before maintaining the equipment.

Performance Steps

1. Inventory the rigging equipment.
2. Ensure all items are included in the inventory.
 - a. Include a handline.
 - b. Include Grunt/Hose Buckets.
 - c. Include a block and tackle.
 - d. Include slings.
 - e. Include a chain hoist.
 - f. Include Strap Hoist.
3. Inspect Canvas and Strap products.
 - a. Check canvas and strap products for faults.
 - (1) Check for tears.
 - (2) Check for cracks.
 - (3) Check for enlarged eyelet holes.
 - (4) Check for stretching.
 - (5) Check for hard or dry leather.
 - b. Check stitched areas for broken, ragged, or rotted threads.
4. Inspect metal products.
 - a. Check the metal products for faults.
 - (1) Check for rust.
 - (2) Check for cracks.
 - (3) Check for breaks.
 - (4) Check for loose attachments.
 - (5) Check for wear that might affect overall product strength.
 - b. Check plastic products on the equipment same as the metal.
5. Inspect rope products.

- a. Check the rope for abrasions, burns, and overall cleanliness.
- b. Inspect the eye splices and check for frayed ends.
- c. Check for stretching by looking for inconsistent diameter of the rope.

6. Maintain the handline.

a. Uncoil the handline.

(1) Secure one end of the handline to a stationary object.

(2) Stretch the handline taut to remove twists and kinks; and center the hook, splice, or knot at the free end of the rope.

b. Check the handline.

(1) Check for cuts.

(2) Check for frays.

(3) Check for cracks.

(4) Continuous smooth movement of the rope through the block sheave.

c. Recoil the handline for storage.

(1) Ensure that loops are the same length (about three feet).

(2) Wrap the last six to eight feet of rope around the coil.

(a) Place the coil of the rope around your wrist.

(b) Turn the coil, with your arm held horizontally at your elbow, away from your body.

(c) Guide the remaining rope around the coil until there is two feet remaining.

(d) Grasp the secured rope with your hand that is holding the coil, and pull the rope through the coil making a loop.

(e) Give the loop a twist, and place it over the top of the coil.

(f) Snug the loop around the coil.

(g) Hang the handline in a clean, dry area.

7. Maintain the block and tackle.

a. Check the rope and blocks.

(1) Check for cuts.

(2) Check for frays.

(3) Check for breaks.

(4) Check for cracks.

(5) Check for continuous smooth movement of the rope through the block sheaves.

b. Wipe the wooden parts with linseed oil.

c. Wipe the metal parts with machine oil.

d. Hang the chain hoist in a clean, dry area.

8. Maintain the chain hoist.

a. Check the chain hoist.

(1) Check for a slipping brake mechanism.

(2) Check for cracks.

(3) Check for chemical damage.

(4) Check for deformation.

(5) Check for a worn chain.

(6) Check for proper lubrication.

(7) Check for free movement of the hooks.

b. Wipe the chain hoist with a light coat of machine oil.

c. Hang the chain hoist in a clean, dry area.

9. Maintain Strap Hoist.

a. Check the strap hoist.

(1) Check for a slipping brake mechanism.

(2) Check for free movement of the hooks.

(3) Check the strap for tears, frays and chemical damage.

b. Hang the strap hoist in a clean, dry area.

10. Maintain grunt/hose buckets.

a. Check canvas for tears.

b. Ensure ropes are not frayed and connections to hold the bucket are good.

11. Ensure that the items listed in the conditions are properly cleaned and stored.

(Asterisks indicates a leader performance step.)

Evaluation Preparation: Provide the Soldier with all the items listed in the conditions. Give the Soldier a safety briefing before starting the test, and ensure that all safety precautions are followed. Prepare the testing area and equipment in advance to ensure that the task standards can be met.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Inventoried the rigging equipment.			
2. Ensured all items were included in the inventory.			
3. Inspected canvas and strap products.			
4. Inspected metal products.			
5. Inspected rope products.			
6. Maintained the handline.			
7. Maintained the block and tackle.			
8. Maintained the chain hoist.			
9. Maintained strap hoist.			
10. Maintained grunt/hose buckets.			
11. Ensured that the items listed in the conditions were properly cleaned and stored.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	LCH	The Lineman's and Cableman's Handbook, 11th Edition, McGraw-Hill. 2007	No	No
	TM 3-34.86	Rigging Techniques, Procedures, and Applications {MCRP 3-17.7j}	No	No
	TM 5-682	Facilities Engineering: Electrical Facilities Safety.	No	No
	TM 5-684	Facilities Engineering - Electrical Exterior Facilities. NAVFAC MO-200/AFJMAN 32-1082.	No	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. 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.

For classroom instruction:

No major environmental impact, training entirely of an administrative or classroom nature, with little or no environmental impact on the environment, equipment or personnel. [32 CFR Part 651, Appendix B, Section II, (i)(2)]

For practical exercises and demonstrations:

Instructors should complete a risk assessment before conducting training, operations, or logistical activities. Risk assessments assist instructors in identifying potential environmental hazards, develops controls, make risk decisions, implement controls, and ensure proper supervision and evaluation. FM 3-100.4, Environmental Considerations in Military Operations.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite 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. A training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite 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, NBC Protection, FM 3-11.5, CBRN Decontamination.

Prerequisite Individual Tasks : None

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
052-204-1108	Inspect Safety Equipment	052 - Engineer (Individual)	Analysis Completed
052-204-1204	Tie Rope Knots and Splices	052 - Engineer (Individual)	Analysis Completed

Supported Individual Tasks :

Task Number	Title	Proponent	Status
052-204-2212	Energize an Electrical Distribution System	052 - Engineer (Individual)	Approved
052-204-2216	Perform Maintenance on Electrical Distribution Equipment	052 - Engineer (Individual)	Approved
052-204-1215	Splice a Medium-Voltage Overhead Power Cable	052 - Engineer (Individual)	Approved
052-204-2210	Secure Conductor to Insulator (Energized)	052 - Engineer (Individual)	Approved
052-204-2305	Trouble Shoot Primary/Secondary Voltage Systems	052 - Engineer (Individual)	Analysis Completed
052-204-2301	Perform Switching, Blocking and Tagging Procedures	052 - Engineer (Individual)	Approved
052-204-2302	Install Distribution System Protection and Equipment (Energized)	052 - Engineer (Individual)	Analysis Completed
052-204-1205	Install Underground Cable	052 - Engineer (Individual)	Analysis Completed
052-204-1206	Use a Line Truck with Trailer to Load and Unload Poles	052 - Engineer (Individual)	Approved
052-204-1126	Perform Crossarm Change Out (With Conductors)	052 - Engineer (Individual)	Reviewed
052-204-1127	Perform Groundman Duties	052 - Engineer (Individual)	Reviewed
052-204-1210	Sag Single Phase and Three Phase Overhead Conductors	052 - Engineer (Individual)	Analysis Completed
052-204-1212	Operate a Bucket/Material Handler Truck	052 - Engineer (Individual)	Analysis Completed
052-204-1207	Install a Utility Pole	052 - Engineer (Individual)	Analysis Completed
052-204-1209	String Single Phase and Three Phase Overhead Conductors	052 - Engineer (Individual)	Analysis Completed
052-204-1121	Install High-Intensity Lights and Ballasts	052 - Engineer (Individual)	Approved
052-204-1120	Install a Grounding Set	052 - Engineer (Individual)	Approved
052-204-1124	Climb a Utility Pole	052 - Engineer (Individual)	Approved

052-204-1123	Secure Conductor to Insulator (De-energized)	052 - Engineer (Individual)	Reviewed
052-204-1115	Rescue an Injured Victim From a Manhole	052 - Engineer (Individual)	Approved
052-204-1114	Rescue an Injured Victim From a Utility Pole	052 - Engineer (Individual)	Reviewed
052-204-1119	Perform Operator Preventive-Maintenance Checks and Services (PMCS) on a Line Truck With Auxiliary Equipment	052 - Engineer (Individual)	Reviewed
052-204-1116	Rescue an Injured Victim From an Aerial-Bucket Truck	052 - Engineer (Individual)	Approved
052-204-1113	Prepare a Manhole for Safe Entry	052 - Engineer (Individual)	Reviewed
052-204-2217	Manage a Power Line Crew	052 - Engineer (Individual)	Analysis Completed
052-204-1211	Install Distribution System Protection and Equipment (De-energized)	052 - Engineer (Individual)	Approved

Supported Collective Tasks :

Task Number	Title	Proponent	Status
05-3-5700	Install Nonstandard Low-Voltage, Electrical-Power Distribution Equipment	05 - Engineers (Collective)	Approved
05-3-5702	Install Underground Electrical-Power Distribution Equipment	05 - Engineers (Collective)	Approved
05-3-5729	Operate Power Generation and Distribution Equipment	05 - Engineers (Collective)	Approved
05-3-5724	Install Expedient, Surface-Laid, Electrical-Power Distribution Equipment	05 - Engineers (Collective)	Approved
05-3-5702	Created from Template: Install Underground Electrical-Power Distribution Equipment	05 - Engineers (Collective)	Analysis
05-3-5723	Install Prime Power Generation Equipment	05 - Engineers (Collective)	Approved
05-3-5704	Perform Nonorganic Equipment Power Distribution Maintenance Operations	05 - Engineers (Collective)	Approved
05-3-5727	Install Underground Distribution Equipment	05 - Engineers (Collective)	Approved
05-3-5701	Created from Template: Install Low-Voltage, Electrical-Power Distribution Equipment	05 - Engineers (Collective)	Analysis
05-3-5700	Created from Template: Install Nonstandard Low-Voltage, Electrical-Power Distribution Equipment	05 - Engineers (Collective)	Analysis
05-3-5725	Install Aerial Electrical Power Distribution Equipment	05 - Engineers (Collective)	Approved
05-3-5705	Retrieve Electrical-Power Generation and Distribution Equipment	05 - Engineers (Collective)	Approved
05-3-5728	Assess Power Generation Systems for Damage	05 - Engineers (Collective)	Approved
05-3-5704	Created from Template: Perform Nonorganic Equipment Power Distribution Maintenance Operations	05 - Engineers (Collective)	Analysis
05-3-5733	Perform Power Plant and Distribution Equipment Shipment	05 - Engineers (Collective)	Approved
05-3-5731	Perform Electrical-Power, Distribution Equipment Organizational Maintenance Operations	05 - Engineers (Collective)	Approved
05-3-5700	Created from Template: Install Nonstandard Low-Voltage, Electrical-Power Distribution Equipment	05 - Engineers (Collective)	Analysis

05-3-5701	Install Low-Voltage, Electrical-Power Distribution Equipment	05 - Engineers (Collective)	Approved
05-3-5703	Perform Electrical Safety Systems Testing and Maintenance	05 - Engineers (Collective)	Approved

ICTL Data :

ICTL Title	Personnel Type	MOS Data
12Q10, Power Line Distribution Specialist, skill level 1	Enlisted	MOS: 12Q, Skill Level: SL1