

Summary Report for Individual Task
551-88H-1422
Perform Standard Hand and Arm Signals for Winch Operations
Status: Approved

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

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the Transportation School Fort Lee, VA foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Condition: Assigned as a Cargo Checker/Handler given a requirement to perform standard hand and arm signals for winch operations in an operational environment, day or night, in normal weather conditions, a completed risk assessment, safety briefing, safety clothing, ship's gear, a winch, a winch operator, and references. This task should not be trained in MOPP 4.

Standard: Perform hand signals ensuring they are clearly visible to the winch operator at all times without injury to personnel or damage to cargo, the vessel, or the ship's gear.

Special Condition: None

Safety Risk: Medium

MOPP 4: Never

Task Statements

Cue: You are assigned as a Cargo Checker/Handler tasked with performing hand and arms signals for a Winch Operator.

DANGER
None

WARNING
None

CAUTION
Ensure that proper hand and arm signals are given with a clear view between operator and Soldier signaling.

Remarks: None

Notes: None

Performance Steps

1. Identify duties and responsibilities of the signalman.

Note: The winch operator cannot see the draft at all times; therefore, he depends on the signalman's instructions. The safety and smoothness of the operator depends on the judgment of the signalman and the skill of the winch operator; a team effort is essential.

a. Each member of the hatch team must know the signals used in cargo handling.

b. The signalman must know the safe methods of slinging cargo and that the draft is slung properly before giving the winch operator a signal to move it.

c. The signalman must be able to judge the few seconds that elapse (delay) between the time the signal is given and the actual stopping of the winch.

Note: If allowance is not made for this, accidents many occur.

d. The signalman and the winch operator must clearly understand the signals in order to prevent accidents, confusion, and damage to cargo, cargo gear, and personnel.

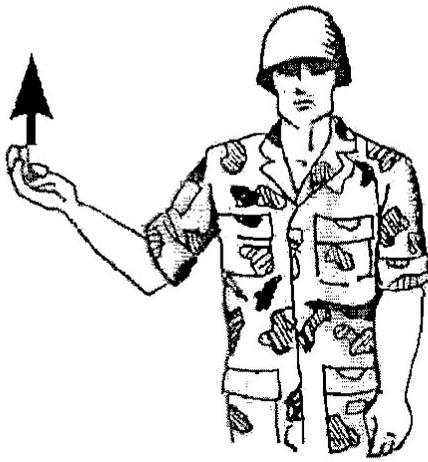
e. The signalman must place himself in such a position that he can be seen at all times by the winch operator.

Note: Both the signalman and winch operator must continually observe the rigging by paying particular attention to slack guys, chaffing runners, loose pins in shackles, strainers, hooks, and bridle which could be unsafe. Stop operations and report deficiency to the hatch foreman.

2. Perform proper hand signals for one-winch operation (see Figure 3-63).

Note: Only one hand is used to signal one-winch operation

a. Hoist: Arm and hand are extended; palm up and the fingers are moved upward.



Hoist



Lower



Rack



Stop

Figure 3-63
Hoist

b. Lower: The arm and hand is extended palms down and the fingers moved downward.

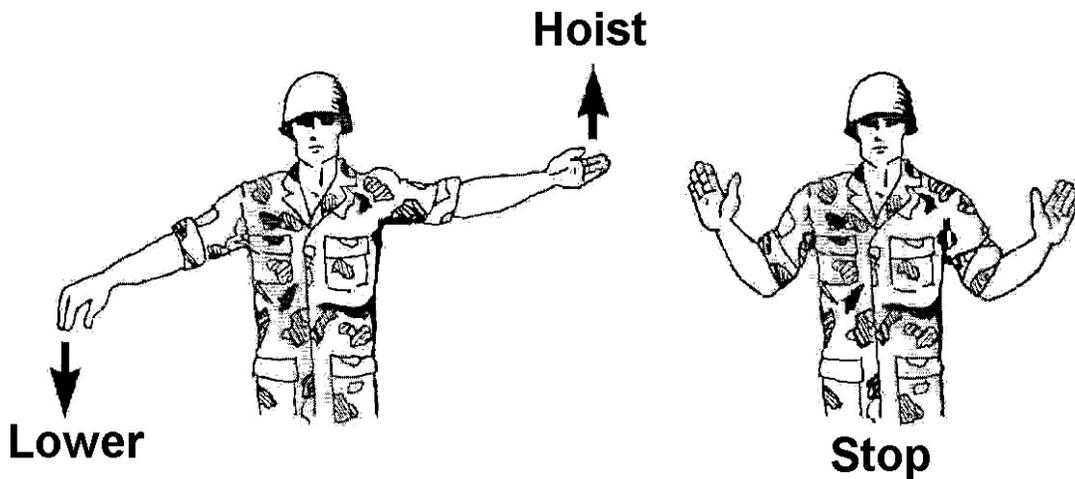


Figure 3-63 (continued)
Lower

c. Rack: The arm is extended outward from the body in a sweeping motion, pointing in the direction in which the draft is to be moved. This signal indicates the winch operator should move the load at their discretion and is given only when the draft is in full view of the winch operator.



Rack
Sweeping Motion Of The Arm
From An Inward To Outward

Figure 3-63 (continued)

Rack

d. Stop: The arm is extended forward with palm facing the winch operator and the fingers are extended upward.



Stop
Palm Facing Winch
Operator And Fingers Upward

Figure 3-63 (continued)
Stop

3. Perform proper hand signals for two-winch operation (see Figure 3-64).

Note: Both hands are used for two-winch operation.

a. Lower/Hoist: Both arms are extended below the shoulder height, with the right palm facing downward and the left palm facing upward.

Hoist
Arm Extended And
Fingers Pointed Up



Lower
Arm Extended And
Fingers Pointed Down

Figure 3-64
Hoist and Lower

b. Stop: Both arms are extended forward with the palms facing the winch operator and the fingers extended upward.



Stop

Figure 3-64 (continued)

Stop

c. Emergency Stop: The arms are extended forward and moved away from the body rapidly and emphatically with the palms facing the winch operator.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all performance steps are passed (P). Score the Soldier NO-GO if any performance step is failed (F). If the Soldier fails any step, 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 performing standard hand and arm signals for winch operations.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Identified the duties and responsibilities of the signalman.			
2. Performed proper hand signals for one-winch operation.			
3. Performed proper hand signals for two-winch operation.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	FM 21-60	Visual Signals	Yes	No
	TC 4-13.17	Cargo Specialist's Handbook	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.

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 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. All Soldiers and leaders must maintain a proactive posture towards safety in day-to-day operations. The need for total commitment to safety should be evident to commanders, senior soldiers, and their subordinates. The importance of safety is intensified for personnel conducting Winching operations. Safety awareness is most effective at three levels: command, leader, and individual. Observe all Warnings and Cautions and remain aware of the following:

- Hearing protection requirements.
- Danger of suspended loads.

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 :

Task Number	Title	Proponent	Status
551-88H-1503	Operate Electric Winches to Load or Discharge Cargo	551 - Transportation (Individual)	Approved

Supported Individual Tasks :

Task Number	Title	Proponent	Status
551-88H-2518	Direct the Preparation of the Three Standard Rigs of Cargo Booms	551 - Transportation (Individual)	Approved
551-88H-1502	Prepare Electric Winches for Operation to Load or Discharge Cargo	551 - Transportation (Individual)	Superseded
551-88H-1518	Open Hatches	551 - Transportation (Individual)	Analysis Completed

Supported Collective Tasks :

Task Number	Title	Proponent	Status
55-2-1405	Conducts LOTS Operation to Discharge and Load RO/RO, LO/LO, and Containers	55 - Transportation (Collective)	Approved
55-2-1406	Conduct Cargo Operations to Discharge and Load Breakbulk Cargo	55 - Transportation (Collective)	Approved

ICTL Data :

ICTL Title	Personnel Type	MOS Data
MOS 88H - CARGO SPECIALIST SL2	Enlisted	MOS: 88H, Skill Level: SL2, Duty Pos: ABW
MOS 88H - CARGO SPECIALIST SL1	Enlisted	MOS: 88H, Skill Level: SL1, Duty Pos: TAZ
MOS 88H - CARGO SPECIALIST SL4	Enlisted	MOS: 88H, Skill Level: SL4, Duty Pos: TGI
MOS 88H - CARGO SPECIALIST SL3	Enlisted	MOS: 88H, Skill Level: SL3, Duty Pos: TBA