



Mississippi State Fire Academy
Confined Space Rescue Operations
Level Skill

Objective: NFPA 1006 7.2.12 & 7.2.17 2017 Ed. **Primary Task:** Removing / Rescuing Entrants from Confined Space

PERFORMANCE EVALUATIONS & INSTRUCTION SHEET

Performance Steps

1. Remove all entrants from a confined space, given PPE, rope, and rescue retrieval systems
2. Operate rescue and retrieval systems
3. Use a confined space rescue tool kit
4. Negotiate internal obstacles and hazards
5. All persons are extricated from the space in the selected transfer device
6. Victims and rescuers are decontaminated as necessary
7. Victim is delivered to EMS provider
8. Performs system safety check
9. Evaluates system components for compromised integrity
10. Directs personnel effectively
11. Communicates commands
12. Analyze system efficiency
13. Manages load movement
14. Identifies concerns

INSTRUCTIONS TO THE CANDIDATE

The candidate, given equipment likely to be used in a technical rescue anchors, a load, and edge; shall set up a tripod for an over-manway rescue, construct a 4:1 block and tackle haul system, retrieve a patient by piggy-backing onto their tag line, the operation shall allow for progress capture and the ability to rest the system until the patient reaches the surface. The candidate shall explain provisions protocol for EMS care and decontamination.

Tripod System Set-up Evaluation Criteria

Full Points (all must apply)

- Candidate is able to erect tripod properly such that it functions within the design parameters, as
- Legs of tripod are evenly spaced as best as possible given terrain, and secured in accordance to
- Tripod is backtied if resultant force is anticipated to be outside of the 'footprint' of the tripod to
- Hobble is snug and secure. Legs are flush against the tripod head;

Mechanical Advantage Set-up Criteria

Full Points (all must apply)

- Ideal Mechanical Advantage (IMA) is a 4:1 with a change in direction (block and tackle) as instructed;
- Candidate correctly identifies the IMA;
- MA utilizes a progress capture device that is safe, appropriate for the application, and effective;
- Hauling system is directly attached to the tripod and load;
- Progress Capture is accessible for operation;
- Directional is established so that direction of pull does not hinder the operation, if needed;
- MA system is attached to the tripod in a secure manner within the design parameters as established

Equipment Evaluation Criteria:

Full Points • Life support equipment is chosen and appropriately applied.

Mechanical Advantage Operation

Full Points (all must apply)

- MA Operates effectively without twisting or fouling
- Length of knots (gain) is appropriate to clear casualty from space
- Haul system is appropriately attached to the safety line of entrant;
- As system is operated, slack is safely managed through progress capture device;

Break-In & Haul Operation

Full Points (all must apply)

- MA Operates effectively without twisting or fouling
- Adequate haul cam (piggy-back) attached to patient tag line
- Haul system is capable of maximum efficient throw,
- Progress is captured when tag-line is hauled, No more than 6" slack is generated
- System is capable of being reset to accommodate multiple hauls

Anchor Evaluation Criteria:

Full Points (all must apply)

- Anchoring techniques are adequate for life support;
- Knot(s) in webbing configurations are appropriately located;
- Knot(s) termination will not slip under load;
- Weight is evenly distributed among legs of webbing;
- (for HSTO only:) Rope is tensioned and not deflected from anchor in such a way that little tension is
- Direction of pull is toward designated edge.

Knots Evaluation Criteria:

Full Points (all must apply)

- Knots are correctly tied, dressed, safetied, oriented, and appropriate for the application.

Safety Evaluation Criteria:

Full Points (all must apply)

- Candidate demonstrates a system safety check before testing or operating system;

Time Evaluation Criteria:

Full Points • Under 6 minutes.

Medical & Decon (Assessed through instructor line of questioning)

Full Points (all must apply)

- Rescuer verbalizes use of safety precautions and appropriate PPE / BSI for handling patient
- Rescuer verbalizes need for adequate decon to transfer patient to care of EMS;
- Rescuer utilizes patient transfer device (verbalizes) appropriate for patient's injuries;
- Rescuer initiates general course of BLS treatment appropriate for patient's condition and injuries;