



Mississippi State Fire Academy

Rope Rescue Operations Level Skill

Objective: NFPA 1006 5.2.12 2017 Ed. **Primary Task:** Construct a Fixed Rope System

PERFORMANCE EVALUATIONS & INSTRUCTION SHEET

Performance Steps

1. The ability to select effective knots
2. Calculates expected loads
3. Uses sound rigging principles
4. Evaluates incident operations as related to interference concerns and setup
5. Calculates expected load
6. Performs system safety check procedures
7. Evaluates system components for compromised integrity

INSTRUCTIONS TO THE CANDIDATE

The candidate, given equipment likely to be used in a technical rescue and a direction of pull, shall construct a fixed rope system; to include and mainline rappel and appropriate belay. System should be constructed to accommodate one team member rappelling over designated edge.

Evaluators will choose one of following options:

- a) *Single Point Anchor Mainline & Belay (See Skill 5.2.5)*
- b) *Multi-Point Mainline and Single Anchor Point Belay(See Skill 5.2.6)*

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.

Edge Protection Evaluation Criteria:

Full Points (all must apply)

- Candidate addresses edge concerns and applies protection to reduce abrasion.

Knots Evaluation Criteria:

Full Points (all must apply)

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

Belay System Set-up Evaluation Criteria:

Full Points (all must apply)

- Belay device / hitch is properly chosen, reeved and functions efficiently as determined by the
- Belay device / hitch is appropriately located in relation to the mainline.
- Candidate demonstrates device lock off or hitch tie-off with half hitch and overhand safety

Equipment Evaluation Criteria:

Full Points (all must apply)

- Life support equipment is chosen and appropriately applied.

Safety Evaluation Criteria:

Full Points (all must apply)

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

Time Evaluation Criteria:

Full Points (all must apply)

- Under 5 minutes.