



Fire Protection Training

Procedures Handbook 4300

ROPES & KNOTS

TOPIC: How To Tie Off A Shovel Or McLeod For Hoisting

TIME FRAME: 30 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A length of rope and a shovel or McLeod

Behavior: The student will correctly tie off a shovel or McLeod for hoisting or lowering under simulated fire conditions.

Standard: With a minimum of 100% accuracy within 1 minute

MATERIALS NEEDED:

- One length of rope
- One shovel or McLeod
- Stop watch
- Performance examinations

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 3

PREPARATION: The ability to effectively use ropes, knots, and hitches is a basic skill which every firefighter should possess. It is critical that every firefighter perform these skills in a professional manner. Failure to do so can result in serious injury to personnel and/or damage to equipment.



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HOW TO TIE OFF A SHOVEL OR
MCLEOD FOR HOISTING

OPERATIONS

KEY POINTS

- | | |
|----------------------------|--|
| 1. Lay shovel or McLeod | 1a. Flat on ground |
| 2. Position rope | 2a. Adjacent to tool
b. With running part end extending from head of tool to a point 1/3 of the distance from the end of the handle |
| 3. Tie a clove hitch (up) | 3a. One third of the distance from the end of the handle
b. Using running part end of the rope |
| 4. Tie a half hitch | 4a. Two thirds of the distance from the end of the handle
b. Half hitch aligned with original clove hitch |
| 5. Tie a second half hitch | 5a. Immediately below the head of the tool
b. Aligned with original clove hitch and half hitch |
| 6. Hoist shovel or McLeod | 6a. Using standing part of the rope |



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APPLICATION:

Student to practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).

Performance Examination

HOW TO TIE OFF A SHOVEL OR
MCLEOD FOR HOISTING

POINTS

TIME START

1. With shovel or McLeod laying flat on ground, position rope adjacent to the tool passing the running part end from the head of the tool down to a point 1/3 of the distance from the end of the handle 20

2. Tie a clove hitch (up) using the running part end of the rope 20

3. Tie a half hitch at a point two thirds of the distance from the base of the handle to the head of the tool. This half hitch to be aligned with the original clove hitch 20

4. Tie a second half hitch immediately below the head of the tool. This half hitch to be aligned with the previous half hitch and the original clove hitch 20

5. Hoist the tool using the standing part of the rope 20

TIME STOP

ENTER TOTAL TIME: _____:

POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE:

EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:

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