



Fire Protection Training

Procedures Handbook 4300

ROPES & KNOTS

TOPIC: How To Tie A Clove Hitch

TIME FRAME: 10 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: One length of rope and a floor to ceiling support member or cylinder

Behavior: The student will demonstrate tying a clove hitch.

Standard: With a minimum of 100% accuracy within 20 seconds

MATERIALS NEEDED:

- One length of rope per student,
- Stop watch
- Floor to ceiling pipe or support
- Performance examinations

REFERENCES: None

PREPARATION: Knot tying is a basic firefighting skill. In emergency operations it is important that each knot be tied quickly and without error. A knot which is used inappropriately or which fails because it was tied improperly can further harm victims, injure fellow firefighters and become an embarrassment to you.

Generally used to secure a rope around a round object and is usually finished off with a half hitch as a safety.



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HOW TO TIE A CLOVE HITCH

OPERATIONS

KEY POINTS

1. Grasp rope
2. Form an underhand loop
3. Form a second underhand loop
4. Tighten the knot

INSTRUCTOR NOTE: It is recommended that this knot be tested as taught in the lesson plan. Too often students learn to tie the knot prior to placing it around the object to be secured or hoisted. In the event they are unable to actually slip the knot over the object, (e.g. a floor to ceiling support) the knot is of no value.

- 1a. With working hand at running part end
- b. With free hand 2' from the running part end on the standing part
- 2a. Around an object
- b. Leaving running part of sufficient length to wrap object a second time
- c. Plus an additional 12"
- 3a. Around same object
- b. Above the first underhand loop
- 4a. Simultaneously
- b. Pulling running part end and standing part in opposite directions
- c. Perpendicular to long axis of the object tied



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HOW TO TIE A CLOVE HITCH

APPLICATION:

Student to practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).

Performance Examination

INSTRUCTOR NOTE: Tie this knot on a floor to ceiling support or pipe to prevent simply sliding a clove hitch over the upper end.

POINTS

TIME START

- | | | |
|----|--|-----------|
| 1. | Grasp rope with either hand at the running part end | <u>20</u> |
| 2. | Form an underhand loop around the object being used as an anchor leaving sufficient running part rope to wrap the object a second time with 12" excess | <u>20</u> |
| 3. | Form a second underhand loop around the object above the first loop | <u>20</u> |
| 4. | Tighten the knot by simultaneously pulling on the running part end and the standing part | <u>20</u> |
| 5. | Pull perpendicular to long axis of object being wrapped to preclude slippage | <u>20</u> |

TIME STOP

ENTER TOTAL TIME: _____:

POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE:

EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:
