



# Fire Protection Training

Procedures Handbook 4300

ROPES & KNOTS

**TOPIC:** How To Tie A Square Knot

**TIME FRAME:** 10 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* One length of rope

*Behavior:* The student will tie a square knot.

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

**MATERIALS NEEDED:**

- One length of rope per student
- Stop watch
- Performance examination

**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.

The square knot is generally used to attach two ropes, to connect web ends, and as a first aid knot.



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HOW TO TIE A SQUARE KNOT

## OPERATIONS

## KEY POINTS

1. Grasp ropes
2. Cross ropes
3. Wrap running part end
4. Form a bight
5. Pass running part end
6. Tighten knot

**INSTRUCTOR NOTE:** It is recommended that a student who can correctly tie the knot using a different technique than that taught in this lesson be allowed to do so.

- 1a. One running part end in each hand
- 2a. At a point 8" from each running part end
  - 3a. Of left hand rope
    - b. Over, behind and under the right hand running part
  - 4a. With right hand rope
    - 5a. Of left hand rope
      - b. Over, behind and under the right hand running part
    - 6a. Simultaneously
      - b. Pulling both ends
      - c. In opposite directions



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***APPLICATION:***

The student to practice until proficient.

***EVALUATION:***

A performance examination.

***ASSIGNMENT:***

To be determined by the instructor(s).

# Performance Examination

**INSTRUCTOR NOTE:** It is recommended that a student who can correctly tie the knot using a different technique than that taught in this lesson be allowed to do so.

## POINTS

### TIME START

- |    |   |           |
|----|---|-----------|
| 1. | Grasp one running part end of the rope in each hand   | <u>10</u> |
| 2. | Cross ropes at a point 8" from each running part end  | <u>10</u> |
| 3. | Wrap the running part end of the rope in the left hand over, behind and under the right hand running part | <u>20</u> |
| 4. | Form a bight in the right hand rope   | <u>20</u> |
| 5. | Pass the running part end of the rope in the left hand over, behind and under the right hand running part | <u>20</u> |
| 6. | Tighten the knot by simultaneously pulling both ends of the rope in opposite directions                   | <u>20</u> |

### TIME STOP

**ENTER TOTAL TIME:** \_\_\_\_\_:

**POINTS POSSIBLE:** 100

**POINTS DEDUCTED:**

**FINAL SCORE:**

**EVALUATOR'S SIGNATURE:**

**DATE:**

### COMMENTS:

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