



# Fire Protection Training

Procedures Handbook 4300

ROPES & KNOTS

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

**TIME FRAME:** :10

**LEVEL OF INSTRUCTION:** Level II

**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

**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 and injure fellow firefighters.

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

## PRESENTATION

OPERATIONS	KEY POINTS
<ol style="list-style-type: none"><li>1. Grasp ropes</li><li>2. Cross ropes</li><li>3. Wrap running part end</li><li>4. Form a bight</li><li>5. Pass running part end</li><li>6. Tighten knot</li><li>7. Check knot configuration</li></ol>	<p>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.</p> <ol style="list-style-type: none"><li>1a. One running part end in each hand</li><li>2a. At a point 8" from each running part end</li><li>3a. Of left hand rope<ol style="list-style-type: none"><li>b. Over, behind and under the right hand running part</li></ol></li><li>4a. With right hand rope</li><li>5a. Of left hand rope<ol style="list-style-type: none"><li>b. Over, behind and under the right hand running part</li></ol></li><li>6a. Simultaneously<ol style="list-style-type: none"><li>b. Pulling both ends</li><li>c. In opposite directions</li></ol></li><li>7a. Sliding both bights inward creating two separate free moving bights</li></ol>



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***APPLICATION:***

The student to practice until proficient.

***EVALUATION:***

A performance examination.

***ASSIGNMENT:***

To be determined by the instructor(s).