



## **State Firemen's and Fire Marshals' Association of Texas**

4450 Frontier Trail ♦ Austin, Texas 78745-1514 ♦ (512) 454-3473

www.sffma.org ♦ (800) 580-7336

### **PERFORMANCE STANDARDS**

#### **ROPES, KNOTS, AND HITCHES # 6**

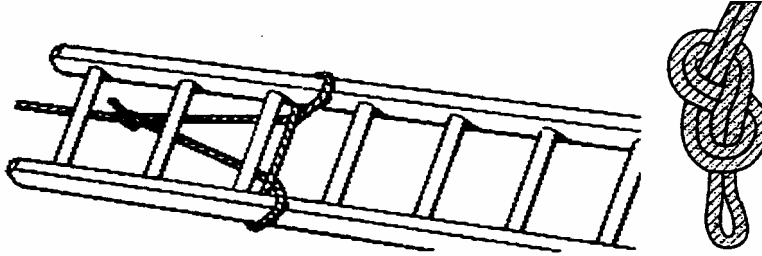
Forming Elements of Tying a Figure Eight on a Bight, Ends Alike

#### **PERFORMANCE STANDARD**

**Section 28-1.3, 28-1.4, 28-1.6, 28-2.2**

**NFPA 1001 3-1.1.2**

**Basic/Intermediate**



#### **OBJECTIVE**

The firefighter shall demonstrate tying a figure eight on a bight in preparation for hoisting a ladder. The firefighter shall select the type and length of rope, which will be adequate to meet the provisions of this skill. The firefighter shall verbally identify five (5) potential elements of rope degradation. The firefighter shall verbally identify the working, standing, and running sections of the rope. Because of various acceptable sequential steps in completing a finished knot, the examiner will primarily evaluate the finished product for accuracy by comparing the knot to reference material. The firefighter shall accomplish the skill in 4 minutes or less.

#### **INSTRUCTIONS: procedures for achieving the objectives**

You will select the type and length of rope, which will be adequate to meet this skill. You will verbalize five (5) potential elements of rope degradation. You shall demonstrate tying a figure eight on a bight, with a safety, in preparation for hoisting a ladder. You must tie an approved safety knot to complete this skill. You will verbally identify the working, standing, and running sections of the rope. I will primarily evaluate the finished product for accuracy by comparing the knot to reference materials. You will have 4 minutes to complete this skill. The skill will commence on my instruction to start. Time will stop when all the identified steps have been accomplished and you put your hands in the air to signal that you are finished with this skill. Do you understand these instructions?

#### **EXAMINERS NOTE:**

The firefighter will not be allowed to review the performance steps at the time of testing.

#### **PREPARATION & EQUIPMENT:**

An adequate length of rope  
1 Single section on ladder

The firefighter shall accomplish the skill wearing a helmet.

#### **REFERENCE SOURCE:**

IFSTA, Essentials of Fire Fighting, 4<sup>th</sup> Edition, pages 115, 154-155, 157, 168  
ROPE # 6-1



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Firefighter: \_\_\_\_\_

Notes:

Dept: \_\_\_\_\_

School: \_\_\_\_\_

Test Site: \_\_\_\_\_

Evaluator: \_\_\_\_\_

**If the firefighter:**

**(No Partial points given)**

- |    |  |     |       |
|----|--|-----|-------|
| a. | Inspects rope for damage and verbalizes at least 5 elements of rope degradation (Elements could include: softness, crusty spots, stiffness, brittleness, nicks cuts, dirt, mildew, heat sears or discoloration, fuzziness, mushy spots, sheath sliding, lumps and/or depressions.) | 1.0 | _____ |
| b. | Correctly measures the rope for desired size   | 1.0 | _____ |
| c. | Ties a figure eight on a bight and applies to a ladder   | 1.0 | _____ |
| d. | Ties safety to standing part   | 1.0 | _____ |
| e. | Verbally identifies the working, standing, and running sections  | 1.0 | _____ |
| f. | Completes the skill in the allotted time   | 1.0 | _____ |

**Allotted time for this skill: 4 minutes    Time \_\_\_\_\_ minutes \_\_\_\_\_ seconds**

Total points possible: 6

Total points needed to pass: 4

Total points scored by this firefighter: \_\_\_\_\_

Performance rating of firefighter on this standard:    PASS ( )    FAIL ( )

Circle one:    First Attempt                  Retest