



State Firemen's and Fire Marshals' Association of Texas

Texas Volunteer Firefighters' and Fire Marshals' Certification Board

PO Box 1409 ♦ Manchaca, Texas 78652-1409 ♦ 512.453.1876 (fax)

www.sffma.org ♦ 512.454.3473 (phone)

INSTRUCTIONAL SKILLS

ROPES #1

Securing a Ladder to an Immovable Object

**Subject: General
NFPA 1001 5.1.1**

**Section 101
Firefighter I**

OBJECTIVE

The firefighter trainee shall secure a ladder using a proper technique. The firefighter trainee shall properly secure equipment to an immovable object with the appropriate securing device chosen. The trainee shall accomplish the skill in 4 minutes or less.

INSTRUCTIONS - procedures for achieving the objective

While wearing full protective clothing and a Self-Contained Breathing Apparatus (SCBA), you shall select an appropriate securing device and properly secure the ladder, at either the base or tip, to an immovable object. You will be required to complete the mandatory steps while performing this skill. You will begin on my instruction to start. You will have 4 minutes to complete this skill. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

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

PREPARATION & EQUIPMENT

Rope

Rope hose tool/belt

Straight ladder (12 or 14 ft.)

The firefighter trainee shall accomplish the skill wearing "**FULL PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTERS**" to include helmet, gloves, coat, trousers, boots, and SCBA. Firefighter trainee will not don face piece or hood.



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INSTRUCTIONAL SKILLS

FIREFIGHTER I: ROPES #1

Securing a Ladder to an Immovable Object

Candidate: _____

Notes: _____

Examiner: _____

School: _____

Test Site: _____

The firefighter trainee shall secure a ladder using a proper technique. The firefighter trainee shall properly secure equipment to an immovable object with the appropriate securing device chosen. The trainee shall accomplish the skill in 4 minutes or less.

Securing the ladder tip:	POSSIBLE POINTS	TEST	RETEST
a. Checks proper climbing angle	1		
b. Secures body to ladder utilizing the proper leg lock method	1		
c. Secures the rope or hose rope tool to the tip of the ladder	1		
d. Secures the rope or hose rope tool to an immovable object	1		
e. Ties appropriate knot on ladder such that when ladder is vibrated, the knot does not loosen or allow the ladder to pull more than approximately six inches (6") from the immovable structure	1		
f. Completes the skill in the allotted time	1		
TOTAL POINTS:	6		

OR

Securing the ladder base:	POSSIBLE POINTS	TEST	RETEST
a. Checks proper climbing angle	1		
b. Secures the rope or hose rope tool to the base of the ladder	1		
c. Secures the rope or hose rope tool to an immovable object	1		
d. Ties appropriate knot on ladder such that when ladder is vibrated, the knot does not loosen or allow the ladder to pull more than approximately six inches (6") from the immovable structure	1		
e. Completes the skill in the allotted time	1		
TOTAL POINTS:	5		

Points needed to pass: 5

OR

Points needed to pass: 4



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INSTRUCTIONAL SKILLS

FIREFIGHTER I: ROPES #1

Securing a Ladder to an Immovable Object

Evaluator/Candidate Comments:

Certifying Examiner

Date

Re-Test Certifying Examiner

Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>



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INSTRUCTIONAL SKILLS

ROPES #2

Rope Inspection & Maintenance Procedures

Subject: Prevention, Preparedness, and Maintenance
NFPA 1001 5.5.1

Section 101
Firefighter I

OBJECTIVE

The firefighter trainee given an adequate length of fire service rope, shall demonstrate the proper technique of inspecting the rope and verbalizing at least five (5) indicators of damage that are characteristic for the type of rope selected. The trainee shall describe the proper procedures for cleaning and storing selected rope. The trainee shall accomplish the skill in 4 minutes or less.

INSTRUCTIONS - procedures for achieving the objective

You shall demonstrate the proper technique of inspecting fire service rope and verbalizing at least five (5) indicators of damage that are characteristic for the type of rope selected. You shall describe the proper cleaning and storage procedures of the selected rope. You will be required to complete the mandatory steps while performing this skill. You will have 4 minutes to complete this skill. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

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

PREPARATION & EQUIPMENT

10-25 feet of rope (synthetic/natural)

The firefighter shall accomplish the skill wearing a helmet.



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INSTRUCTIONAL SKILLS

FIREFIGHTER I: ROPES #2

Rope Inspection & Maintenance Procedures

Candidate: _____

Notes: _____

Examiner: _____

School: _____

Test Site: _____

The firefighter trainee given an adequate length of fire service rope, shall demonstrate the proper technique of inspecting the rope and verbalizing at least five (5) indicators of damage that are characteristic for the type of rope selected. The trainee shall accomplish the skill in 4 minutes or less.

The Candidate:	POSSIBLE POINTS	TEST	RETEST
a. Inspects rope for damage and <i>verbalizes at least 5 elements of rope degradation</i> (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		
b. Examines the inner component by twisting the rope or feeling for bunching and thinness	1		
c. <i>Verbally explains that he/she would tag and remove from service any severely damaged rope</i>	1		
d. <i>Verbally explains cleaning procedures</i>	1		
e. <i>Verbally states that rope needs time to air dry completely</i>	1		
f. <i>Verbally states an additional inspection is necessary after drying</i>	1		
g. <i>Verbally states proper storage of rope</i>	1		
h. Completes skill in allotted time	1		
TOTAL POINTS:	8		

Points needed to pass: 6

Evaluator/Candidate Comments:

 Certifying Examiner

 Date

 Re-Test Certifying Examiner

 Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>



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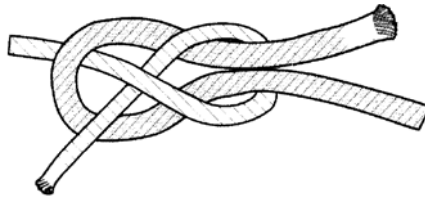
INSTRUCTIONAL SKILLS

ROPES #3

Forming Elements of a Becket Bend/Sheet Bend

Subject: General
NFPA 1001 5.1.1, 5.1.2

Firefighter I



OBJECTIVE

The firefighter trainee shall demonstrate tying a becket bend (or sheet bend). The trainee shall select the type and length of rope which will be adequate to meet the provisions of this skill. The trainee shall verbally identify five (5) potential elements of rope degradation. The trainee 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 materials. The trainee shall accomplish the skill in 4 minutes or less.

INSTRUCTIONS - procedures for achieving the objective

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 becket bend (or sheet bend). I will primarily evaluate the finished product for accuracy by comparing the knot to reference materials. You will also verbally identify the working, standing, and running sections of the rope. You will have 4 minutes to complete this skill. The skill will begin on my instruction to start. The time will stop when you inform me that you have completed the skill. Do you understand these instructions?

EXAMINERS NOTE

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

PREPARATION & EQUIPMENT

Two adequate lengths of rope of different diameters.

The firefighter trainee shall accomplish the skill wearing a helmet.



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INSTRUCTIONAL SKILLS

FIREFIGHTER I: ROPES #3

Forming Elements of a Becket Bend/Sheet Bend

Candidate: _____

Notes: _____

Examiner: _____

School: _____

Test Site: _____

The firefighter trainee shall demonstrate tying a becket bend (or sheet bend). The trainee shall select the type and length of rope which will be adequate to meet the provisions of this skill. The trainee shall verbally identify five (5) potential elements of rope degradation. The trainee 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 materials. The trainee shall accomplish the skill in 4 minutes or less.

The Candidate:	POSSIBLE POINTS	TEST	RETEST
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		
b. Forms a bight in one of the ends to be tied (bight is formed in larger diameter rope) and passes the end of the second rope through the bight	1		
c. Brings the loose end of the second rope around both parts of the bight	1		
d. Passes the loose end of the second rope under its own standing part and over the bight	1		
e. Draws the knot down snug, checking for slippage	1		
f. Verbally identifies working, standing and running sections	1		
g. Completes the skill in the allotted time	1		
TOTAL POINTS:	7		

Points needed to pass: 5



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INSTRUCTIONAL SKILLS

FIREFIGHTER I: ROPES #3

Forming Elements of a Becket Bend/Sheet Bend

Evaluator/Candidate Comments:

Certifying Examiner

Date

Re-Test Certifying Examiner

Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>



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INSTRUCTIONAL SKILLS

ROPES #4

Forming Elements of a Bowline Knot

**Subject: General
NFPA 1001 5.1.1**

Firefighter I



OBJECTIVE

The firefighter trainee shall demonstrate tying a bowline knot with a safety on a smoke ejector in preparation for hoisting. The trainee shall select the type and length of rope which will be adequate to meet the provisions of this skill. The trainee shall verbally identify five (5) potential elements of rope degradation. The trainee shall verbally identify the working, standing, and running sections of the rope. The trainee shall accomplish the skill in 4 minutes or less.

INSTRUCTIONS - procedures for achieving the objective

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 bowline knot with safety on a smoke ejector. I will primarily evaluate the finished product for accuracy by comparing the knot to reference materials. You will also verbally identify the working, standing, and running sections of the rope. You will have 4 minutes to complete this skill. You will be required to complete the mandatory steps while performing this skill. The skill will begin on my instruction to start. The time will stop when all the identified steps have been accomplished and you put your hands in the air to signal that you have completed this skill. Do you understand these instructions?

EXAMINERS NOTE

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

PREPARATION & EQUIPMENT

Adequate length of rope (synthetic/natural) Smoke ejector

The firefighter shall accomplish the skill wearing a helmet.



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INSTRUCTIONAL SKILLS

FIREFIGHTER I: ROPES #4

Forming Elements of a Bowline Knot

Candidate: _____

Notes: _____

Examiner: _____

School: _____

Test Site: _____

The firefighter trainee shall demonstrate tying a bowline knot with a safety on a smoke ejector in preparation for hoisting. The trainee shall select the type and length of rope which will be adequate to meet the provisions of this skill. The trainee shall verbally identify five (5) potential elements of rope degradation. The trainee shall verbally identify the working, standing, and running sections of the rope. The trainee shall accomplish the skill in 4 minutes or less.

The Candidate:	POSSIBLE POINTS	TEST	RETEST
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		
b. Correctly measures rope for desired size	1		
c. Ties bowline knot on a smoke ejector in preparation for hoisting	1		
d. Ties safety to loop	1		
e. Verbally identifies the working, standing, and running sections	1		
f. Completes the skill in the allotted time	1		
TOTAL POINTS:	6		

Points needed to pass: 5

Evaluator/Candidate Comments:

Certifying Examiner

Date

Re-Test Certifying Examiner

Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>



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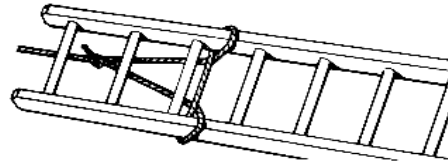
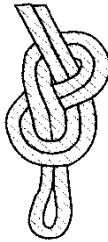
INSTRUCTIONAL SKILLS

ROPES #6

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

**Subject: General
NFPA 1001 5.1.1**

**Section 101
Firefighter I**



OBJECTIVE

The firefighter trainee shall demonstrate tying a figure eight on a bight in preparation for hoisting a ladder. The trainee shall select the type and length of rope which will be adequate to meet the provisions of this skill. The trainee shall verbally identify five (5) potential elements of rope degradation. The trainee 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 materials. The trainee shall accomplish the skill in 4 minutes or less.

INSTRUCTIONS - procedures for achieving the objective

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 knot, in preparation for hoisting a ladder. You will verbally identify the working, standing, and running sections of the rope. You will have four (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 trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1 single section of ladder

An adequate length of rope

The firefighter trainee shall accomplish the skill wearing a helmet.



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INSTRUCTIONAL SKILLS

FIREFIGHTER I: ROPES #6

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

Candidate: _____

Notes: _____

Examiner: _____

School: _____

Test Site: _____

The firefighter trainee shall demonstrate tying a figure eight on a bight in preparation for hoisting a ladder. The trainee shall accomplish the skill in 4 minutes or less.

	POSSIBLE POINTS	TEST	RETEST
a. Inspects the rope for damage and <i>verbalizes at least 5 elements of rope damage</i> . (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		
b. Correctly measures the rope for desired size	1		
c. Ties a figure eight on a bight and applies to a ladder	1		
d. Ties safety knot to standing part	1		
e. <i>Verbally identifies the working, standing, and running sections</i>	1		
f. Completes the skill in the allotted time	1		
TOTAL POINTS:	6		

Points needed to pass: 5

Evaluator/Candidate Comments:

Certifying Examiner

Date

Re-Test Certifying Examiner

Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>