



# State Firefighters' and Fire Marshals' Association of Texas

Texas Volunteer Firefighters' and Fire Marshals' Certification Board

PO Box 1409 ♦ Manchaca, Texas 78652-1409

www.sffma.org ♦ 512.454.3473 (phone)

## INSTRUCTIONAL SKILLS

### LADDERS FFI-1

Inspection and Maintenance Procedures for Ladders

**Subject: Preparedness and Maintenance**

**NFPA 1001 4.5.1**

#### REFERENCE

Clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise. (4.5.1)

#### OBJECTIVE

Trainee shall inspect ladders, so that the ladders are inspected according to manufacturer or departmental guidelines and the ladders are placed in a ready state or reported otherwise.

#### INSTRUCTIONS - procedures for achieving the objective

You will explain and demonstrate the proper techniques for the inspection of ladders. You will begin on my instruction to start. The skill will end when you state to me that you have completed all the identified steps. Do you understand these instructions?

#### PREPARATION & EQUIPMENT

Extension ladder

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-1

Inspection and Maintenance Procedures for Ladders

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall inspect ladders, so that the ladders are inspected according to manufacturer or departmental guidelines and the ladders are placed in a ready state or reported otherwise. (4.5.1)

	POSSIBLE POINTS	TEST	RETEST
a. Checks for signs of physical damage (cracks, splintering, warping, discoloration, bending, dents, etc.)	1		
b. Tests rungs for tightness by twisting them	1		
c. Checks for bent beams and rungs	1		
d. Checks halyard for frays, cuts or bunching	1		
e. Checks halyard for snugness and freedom of movement	1		
f. Checks for free-turning pulleys	1		
g. Checks heat sensor for signs of heat exposure	1		
h. Checks dogs or pawls for freedom of movement and operation	1		
i. Checks condition of guides and free movement of fly sections	1		
j. Checks rivets, welds, and bolted connections for tightness and defects	1		
k. Checks for any unusual wear	1		
l. Checks ladder for cleanliness	1		
m. Verbally states that ladders should be inspected monthly and after each use	1		
n. Performs skill in a safe and proficient manner	1		
<b>TOTAL POINTS:</b>	<b>14</b>		

**Points needed to pass: 10**

**Evaluator/Candidate Comments:**

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Instructor's Signature

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-1

Cleaning Ladders

**Subject: Preparedness and Maintenance**

**NFPA 1001 4.5.1**

#### REFERENCE

Clean and check ladders, ventilation equipment, SCBA, ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise. (4.5.1)

#### OBJECTIVE

Trainee shall clean and maintain ladders, so that the ladders are cleaned and maintained according to manufacturer or departmental guidelines and the ladders are placed in a ready state or reported otherwise.

#### INSTRUCTIONS - procedures for achieving the objective

You will verbally explain and demonstrate the proper technique for cleaning fire service ladders. You shall verbalize each step as it is being performed. You will begin on my instruction to start. The skill will end when you state to me that you have completed all the identified steps. Do you understand these instructions?

#### PREPARATION & EQUIPMENT

1- 24 ft. or 35 ft. extension ladder  
Soapy water  
1- brush

Waterproof grease

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-1

#### Cleaning Ladders

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall clean and maintain ladders, so that the ladders are cleaned and maintained according to manufacturer or departmental guidelines and the ladders are placed in a ready state or reported otherwise. (4.5.1)

	POSSIBLE POINTS	TEST	RETEST
a. Thoroughly removes dirt from ladder with soapy water and a brush	1		
b. Examines all braces, slides, stop locks, halyards, rivets, pulleys, and moveable parts	1		
c. Checks lubrication of moveable parts	1		
d. Makes notation of any loose parts, cracks, dry rot, or unusual wear.	1		
e. Thoroughly dries the ladder and lubricates with waterproof grease	1		
f. Performs skill in a safe and proficient manner, per AHJ	1		
TOTAL POINTS:	6		

**Points needed to pass: 4**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-3

Rescuing a Conscious Person

**Subject: Fireground Operations**

**NFPA 1001 4.3.9**

#### REFERENCE

Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members' safety, including respiratory protection, is not compromised. (4.3.9)

#### OBJECTIVE

Trainee shall climb a ladder and rescue a conscious person so that the person is brought safely down the ladder.

#### INSTRUCTIONS - procedures for achieving the objective

Given an above grade rescue scenario, you shall demonstrate the proper climbing technique while assisting a conscious person down the ladder. You will begin on my instruction to start. The skill will end when you state to me that you have completed all the identified steps. Do you understand these instructions?

#### PREPARATION & EQUIPMENT

A selection of ground ladders Person (for simulated rescue)

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-3

Rescuing a Conscious Person

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall climb a ladder and rescue a conscious person so that the person is brought safely down the ladder. (4.3.9)

	POSSIBLE POINTS	TEST	RETEST
a. Firefighter makes verbal contact with person and attempts to calm them down	1		
b. Sets up appropriate ladder for scenario in a method approved by AHJ	1		
c. With the ladder in place, checks proper climbing angle and ensures the ladder is secure	1		
d. Firefighter climbs the ladder to meet the person and instructs the person onto the ladder	1		
e. As soon as the person is on the ladder, the firefighter's arms are placed under the armpits of the person and a knee is placed between the person's legs for support	1		
f. Firefighter continues to communicate with the person throughout rescue	1		
g. Performs skill in a safe and proficient manner, per AHJ	1		
TOTAL POINTS:	7		

**Points needed to pass: 5**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-4

Rescuing an Unconscious Adult

**Subject: Fireground Operations**

**NFPA 1001 4.3.9**

#### REFERENCE

Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members' safety, including respiratory protection, is not compromised. (4.3.9)

#### OBJECTIVE

Trainee shall climb a ladder and rescue an unconscious person so that the person is brought safely down the ladder.

#### INSTRUCTIONS - procedures for achieving the objective

Given an above grade rescue scenario, you shall demonstrate the proper climbing technique while rescuing an unconscious person down the ladder. 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?

#### PREPARATION & EQUIPMENT

A selection of ground ladders Person (for simulated rescue)

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-4

Rescuing an Unconscious Adult

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall climb a ladder and rescue an unconscious person so that the person is brought safely down the ladder. (4.3.9)

	POSSIBLE POINTS	TEST	RETEST
a. Sets up appropriate ladder for scenario in a method approved by AHJ	1		
b. With the ladder in place, checks proper climbing angle and ensures the ladder is secure	1		
c. Firefighter 1 climbs the ladder and begins preparing the victim for rescue down the ladder	1		
d. Firefighter 2 climbs to the top of the ladder	1		
e. Firefighter 2 places hands on the rungs and bends a knee at a 90 degree angle on a rung	1		
f. Firefighter 1 lifts the victim onto the ladder and into the hold of Firefighter 2 keeping the victims back towards the ladder	1		
g. Firefighter 2 brings the victim down, keeping the victim straddled on their knee and the victims arms over the firefighters arms	1		
h. Firefighter 2 brings the victim down one rung at a time, transferring the victims weight from one leg to the other	1		
i. Performs skill in a safe and proficient manner, per AHJ	1		
<b>TOTAL POINTS:</b>	<b>9</b>		

**Points needed to pass: 6**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-5

Rescuing an Unconscious Child or Small Adult

#### **Subject: Fireground Operations**

#### **NFPA 1001 4.3.9**

#### **REFERENCE**

Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members' safety, including respiratory protection, is not compromised. (4.3.9)

#### **OBJECTIVE**

Trainee shall climb a ladder and rescue an unconscious child so that the child is brought safely down the ladder.

#### **INSTRUCTIONS - procedures for achieving the objective**

Given an above grade rescue scenario, you shall demonstrate the proper climbing technique while rescuing an unconscious child or small adult down the ladder. You will begin on my instruction to start. The skill will end when you state to me that you have completed all the identified steps. Do you understand these instructions?

#### **PREPARATION & EQUIPMENT**

A selection of ground ladders

Team member

Person/mannequin per AHJ (for simulated rescue)

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-5

Rescuing an Unconscious Child or Small Adult

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall climb a ladder and rescue an unconscious child so that the child is brought safely down the ladder. (4.3.9)

	POSSIBLE POINTS	TEST	RETEST
a. Sets up appropriate ladder for scenario in a method approved by AHJ	1		
b. With the ladder in place, checks proper climbing angle and ensures the ladder is secure	1		
c. Firefighter #1 climbs the ladder and begins preparing the victim for rescue down the ladder	1		
d. Firefighter #2 climbs to the top of the ladder	1		
e. Firefighter #2 places hands on the beams of the ladder	1		
f. Firefighter #1 lifts the victim onto the ladder and across the arms of Firefighter #2	1		
g. Firefighter #2 brings the victim down, keeping their arms level and sliding their hands down the beams	1		
h. Performs skill in a safe and proficient manner, per AHJ	1		
<b>TOTAL POINTS:</b>	<b>8</b>		

**Points needed to pass: 6**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-6

Rescuing an Unconscious Large Adult

#### **Subject: Fireground Operations**

#### **NFPA 1001 4.3.9**

#### **REFERENCE**

Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team members' safety, including respiratory protection, is not compromised. (4.3.9)

#### **OBJECTIVE**

Trainee shall climb a ladder and rescue an unconscious large adult so that the person is brought safely down the ladder.

#### **INSTRUCTIONS - procedures for achieving the objective**

Given an above grade rescue scenario, working as a team, you shall demonstrate the proper climbing technique while rescuing an unconscious large adult down ladder. You will begin on my instruction to start. The skill will end when you state to me that you have completed all the identified steps. Do you understand these instructions?

#### **PREPARATION & EQUIPMENT**

A selection of ground ladders

Person/mannequin per AHJ (for simulated rescue)

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-6

Rescuing an Unconscious Large Adult

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall climb a ladder and rescue an unconscious large adult so that the person is brought safely down the ladder. (4.3.9)

	POSSIBLE POINTS	TEST	RETEST
a. Sets up appropriate ladders for scenario in a method approved by AHJ	1		
b. With the ladders in place, checks proper climbing angle and ensures the ladder is secure	1		
c. One or more firefighters climbs the ladders and begins preparing the victim for rescue down the ladder	1		
d. Two additional Firefighters climb to the top of the ladders and places hands on the beams of the ladders	1		
e. Firefighters lift the victim onto the ladders and across the arms of Firefighters	1		
f. Firefighters on the ladders bring the victim down, keeping their arms level and sliding their hands down the beams	1		
g. Performs skill in a safe and proficient manner, per AHJ	1		
TOTAL POINTS:	7		

**Points needed to pass: 5**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-7

Working Off Ground Ladder with Tools

**Subject: Fireground Operations**

**NFPA 1001 4.3.6**

#### REFERENCE

Set up ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished. (4.3.6)

#### OBJECTIVE

Trainee, without a life safety belt, shall demonstrate the technique of working from a ground ladder with a fire fighting tool.

#### INSTRUCTIONS - procedures for achieving the objective

Given a designated ladder, you shall demonstrate the techniques of working off a ground ladder with a fire fighting tool. You are required to climb to a height of approximately 8 feet. Prior to climbing, you shall check for proper angle of inclination. After reaching the appropriate height, you shall apply a leg lock and demonstrate working by making four (4) simulated motions with the tool. You will begin on my instruction to start. The skill will end when you state to me that you have completed all the identified steps. Do you understand these instructions?

#### PREPARATION & EQUIPMENT

1 14 ft. ladder (or greater)

1 fire fighting tool

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-7

Working Off Ground Ladder with Tools

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee, without a life safety belt, shall demonstrate the technique of working from a ground ladder with a fire fighting tool. (4.3.6)

	POSSIBLE POINTS	TEST	RETEST
a. Checks the ladder for proper climbing angle	1		
b. Climbs the ladder smoothly with a tool in one hand and the other hand sliding underneath the beam	1		
c. Secures the body to the ladder utilizing a proper leg lock method	1		
d. Appears stable while making at least four simulated motions with the tool	1		
e. Performs skill in a safe and proficient manner, per AHJ	1		
TOTAL POINTS:	5		

**Points needed to pass: 4**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-8

Low Shoulder Carry, Right Angle Raise of a Single Ladder

#### **Subject: Fireground Operations**

#### **NFPA 1001 4.3.6**

#### **REFERENCE**

Set up ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished. (4.3.6)

#### **OBJECTIVE**

Trainee shall carry, position, and raise a 14-foot single or wall ladder using a low shoulder carry, right angle raise.

#### **INSTRUCTIONS - procedures for achieving the objective**

Using a low shoulder carry, you will pick up and carry a single ladder 100 feet to a designated structure. Using a right angle raise, you will raise the ladder to a single-story roof or its equivalent. You shall verbalize the mandatory steps while performing this skill. You will begin on my instruction to start. The skill will end when you indicate that the ladder is suitable for climbing. Do you understand these instructions?

#### **PREPARATION & EQUIPMENT**

Single ladder

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-8

Low Shoulder Carry, Right Angle Raise of a Single Ladder

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall carry, position, and raise a 14foot single or wall ladder using a low shoulder carry, right angle raise. (4.3.6)

	POSSIBLE POINTS	TEST	RETEST
a. Standing next to the ladder, lifts and carries the ladder to the structure using the low shoulder method with the ladder butt to the front and slightly lowered	1		
b. Checks for obstructions, <i>verbalizes that the area is clear of overhead obstructions</i> , and then places butt in proper position. (The verbalization must be performed prior to raising the ladder.)	1		
c. Makes a proper right angle raise	1		
d. While maintaining control of the ladder, pivots the ladder, if necessary, and lowers the ladder into place	1		
e. Checks for proper angle of inclination and <i>verbally indicates that the ladder is suitable for climbing</i>	1		
f. Performs skill in a safe and proficient manner, per AHJ	1		
<b>TOTAL POINTS:</b>	<b>6</b>		

**Points needed to pass: 4**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-9

Two-Firefighter Low Shoulder Carry, Right Angle Flat Raise of a 24 Foot Extension Ladder

#### **Subject: Fireground Operations**

#### **NFPA 1001 4.3.6**

#### **REFERENCE**

Set up ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished. (4.3.6)

#### **OBJECTIVE**

Trainee, operating as a member of a team, shall carry, position, and raise a 24-foot extension ladder using a low shoulder carry, right angle raise.

#### **INSTRUCTIONS - procedures for achieving the objective**

Using a two-firefighter low shoulder carry, you and a designated person will pick up and carry a 24 foot extension ladder 100 feet to a designated structure. You will raise the ladder to a two-story window or its equivalent. You will be positioned at the butt end of ladder for this evaluation. You shall verbalize the mandatory steps while performing this skill. When you have reached your destination, you and your team member will raise the ladder using the Right Angle Flat Raise. You will only communicate with the other team member to assure the ladder is properly carried, raised, and extended. You will begin on my instructions to start. The skill will end when you verbally state that the ladder is suitable for climbing. Do you understand these instructions?

#### **PREPARATION & EQUIPMENT**

24 ft. extension ladder

Drill tower or equivalent

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-9

Two-Firefighter Low Shoulder Carry, Right Angle Flat Raise of a 24 Foot Extension Ladder

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee, operating as a member of a team, shall carry, position, and raise a 24-foot extension ladder using a low shoulder carry, right angle raise. (4.3.6)			
	POSSIBLE POINTS	TEST	RETEST
a. Standing next to the ladder at the butt end, gives a command to shoulder the ladder	1		
b. Places hand over the butt spur, checks for and <i>verbalizes the area is clear of overhead obstructions</i> on approach to the building, spots the ladder, and places the butt of both beams on the ground. (The verbalization must be performed prior to raising the ladder.)	1		
c. Utilizes designated raise	1		
d. Heels the ladder by standing on the bottom rung and <i>verbalizes a command to raise the ladder</i>	1		
e. Faces the other team member and pivots the ladder, if necessary, to set the fly out (or as stated in manufacturer's recommendation). The trainee extends the fly to the proper distance and engages the pawls	1		
f. After lowering the ladder into place, the trainee checks for proper climbing angle and fly extension, and adequate structural support at tip	1		
g. Ties off the halyard to a rung in a manner that will prevent the fly from slipping and that will prevent anyone from tripping while climbing and assists the other team member. The trainee <i>verbalizes that the ladder is suitable for climbing</i> . Time stops at this point.	1		
h. Performs skill in a safe and proficient manner, per AHJ	1		
<b>TOTAL POINTS:</b>	<b>8</b>		

**Points needed to pass: 6**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-10

Two-Firefighter Low Shoulder Carry, Right Angle Beam Raise of a 24 Foot Extension Ladder

#### **Subject: Fireground Operations**

#### **NFPA 1001 4.3.6**

#### **REFERENCE**

Set up ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished. (4.3.6)

#### **OBJECTIVE**

Trainee, operating as a member of a team, shall carry, position, and raise a 24-foot extension ladder using a low shoulder carry, right angle beam raise.

#### **INSTRUCTIONS - procedures for achieving the objective**

Using a two-firefighter low shoulder carry, you and a designated person will pick up and carry a 24 foot extension ladder 100 feet to a designated structure. You will raise the ladder to a two-story window or its equivalent. You will be positioned at the butt of the ladder for the evaluation. You shall verbalize the mandatory steps while performing this skill. When you have reached your destination, you and your team member will raise the ladder using a right angle beam raise. You will only communicate with the other team member to assure the ladder is properly carried, raised, and extended. The skill will end when you verbally state that the ladder is suitable for climbing. Do you understand these instructions?

#### **PREPARATION & EQUIPMENT**

24 ft. extension ladder

Drill tower or equivalent

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-10

Two-Firefighter Low Shoulder Carry, Right Angle Beam Raise of a 24 Foot Extension Ladder

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee, operating as a member of a team, shall carry, position, and raise a 24 foot extension ladder using a low shoulder carry, right angle beam raise. (4.3.6)			
	POSSIBLE POINTS	TEST	RETEST
a. Standing next to the ladder at the butt end, gives a command to shoulder the ladder	1		
b. Places hand over the butt spur, checks for obstructions and <i>verbalizes the area is clear of overhead obstructions</i> . On approach to the building, spots the ladder and places butt of one beam on the ground. (The verbalization must be performed prior to raising the ladder.)	1		
c. Utilizes designated raise	1		
d. Heels the ladder and <i>gives a command to raise the ladder</i>	1		
e. Faces the other team member and pivots the ladder to set the fly out (or as stated in the manufacturer's recommendation). The trainee extends the fly to the proper distance and engages the pawls.	1		
f. After lowering the ladder into place, the trainee checks for proper climbing angle and fly extension, and adequate structural support at tip.	1		
g. The trainee shall tie off the halyard to a rung in a manner that will prevent the fly from slipping and that will prevent anyone from tripping while climbing. The trainee <i>verbalizes that the ladder is suitable for climbing</i> .	1		
h. Performs skill in a safe and proficient manner, per AHJ	1		
<b>TOTAL POINTS:</b>	<b>8</b>		

**Points needed to pass: 6**

**Evaluator/Candidate Comments:**

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Instructor's Signature

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Date



# State Firefighters' and Fire Marshals' Association of Texas

Texas Volunteer Firefighters' and Fire Marshals' Certification Board

PO Box 1409 ♦ Manchaca, Texas 78652-1409

www.sffma.org ♦ 512.454.3473 (phone)

## INSTRUCTIONAL SKILLS

### LADDERS FFI-11

Two-Firefighter Low-shoulder Carry, Flat Parallel Raise of a 24 Foot Extension Ladder

#### **Subject: Fireground Operations**

#### **NFPA 1001 4.3.6**

#### **REFERENCE**

Set up ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished. (4.3.6)

#### **OBJECTIVE**

Trainee, operating as a member of a team, shall carry, position, and raise a 24-foot extension ladder using a low shoulder carry, flat parallel raise.

#### **INSTRUCTIONS - procedures for achieving the objective**

Using a two-firefighter low shoulder carry, you and a designated person will pick up and carry a 24-foot extension ladder 100 feet to a designated structure. You will raise the ladder to a two-story window or its equivalent. You will be positioned at the butt end of ladder for this evaluation. You shall verbalize the mandatory steps while performing this skill. When you have reached your destination, you and your team member will raise the ladder using the Right Angle Flat Raise. You will only communicate with the other team member to assure the ladder is properly carried, raised, and extended. You will begin on my instructions to start. The skill will end when you verbally state that the ladder is suitable for climbing. Do you understand these instructions?

#### **PREPARATION & EQUIPMENT**

24 ft. extension ladder

Drill tower, ladder wall, or equivalent

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-11

Two-Firefighter Low-shoulder Carry, Flat Parallel Raise of a 24 Foot Extension Ladder

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee, operating as a member of a team, shall carry, position, and raise a 24 foot extension ladder using a low shoulder carry, flat parallel raise. (4.3.6)			
	POSSIBLE POINTS	TEST	RETEST
a. Stands next to the ladder at the butt, <i>gives a command to shoulder the ladder.</i> Both individuals, as they stand, will use leg muscles to lift the ladder.	1		
b. Places hand over butt spur, checks for obstructions and <i>verbalizes that area is clear of obstructions.</i> On approach to building, spots the ladder, places the butt on the ground and turns the ladder flat. (The verbalization must be performed prior to raising the ladder.)	1		
c. Utilizes designated raise	1		
d. Heels the ladder by standing on the bottom rung, crouches down to grasp a convenient rung or the beams with both hands, leans back and gives a command to raise the ladder	1		
e. Faces the other member and pivots the ladder to set the fly out (or as stated in the manufacturer's recommendation). The trainee extends the fly to the proper distance and engages pawls	1		
f. After lowering the ladder into place, the trainee checks for proper climbing angle and fly extension, and adequate structural support at tip	1		
g. Ties off the halyard to a run in a manner that will prevent the fly from slipping and that will prevent anyone from tripping while climbing and assists the other team member. The trainee <i>verbalizes that the ladder is suitable for climbing.</i>	1		
h. Performs skill in a safe and proficient manner, per AHJ	1		
<b>TOTAL POINTS:</b>	<b>8</b>		

**Points needed to pass: 6**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-12

Carry, Hoist, and Secure a Roof Ladder

#### **Subject: Fireground Operations**

#### **NFPA 1001 4.3.12**

#### **REFERENCE**

Perform vertical ventilation on a structure as part of a team, given an assignment, personal protective equipment, ground and roof ladders, and tools, so that ladders are positioned for ventilation, a specified opening is created, all ventilation barriers are removed, structural integrity is not compromised, products of combustion are released from the structure, and the team retreats from the area when ventilation is accomplished. (4.3.12)

#### **OBJECTIVE**

Trainee shall carry, hoist, and secure a roof ladder onto a structure with a pitched roof.

#### **INSTRUCTIONS - procedures for achieving the objective**

Given an existing raised extension ladder, you shall carry, hoist, and secure a roof ladder onto a structure with a pitched roof. You will begin on my instruction to start. The skill will end when you state to me that you have completed all the identified steps. Do you understand these instructions?

#### **PREPARATION & EQUIPMENT**

1 - Roof ladder

1 - Extension ladder

Pitched roof

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-12

Carry, Hoist, and Secure a Roof Ladder

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall carry, hoist and secure a roof ladder onto a structure with a pitched roof. (4.3.12)			
	POSSIBLE POINTS	TEST	RETEST
a. Carries the roof ladder, tip first, to the ladder placed at the structure	1		
b. Sets the roof ladder on the ground near the ladder to be ascended and opens the hooks	1		
c. Tilts the roof ladder up so that it rests against the other ladder, with the hooks facing outward	1		
d. Climbs the main ladder until his/her shoulder is about two rungs above midpoint of the roof ladder	1		
e. Reaches through the rungs of the roof ladder and hoists it onto his/her shoulder	1		
f. Climbs to the top of the ladder, and uses a leg lock or life safety harness to lock into the ladder	1		
g. Takes the roof ladder off the shoulder	1		
h. Uses a hand over hand method to push the ladder onto the roof with the hooks in the down position	1		
i. Pushes the roof ladder up the roof until the hooks go over the edge of the peak	1		
j. Pulls the ladder back down so the hooks catch solidly over the peak	1		
k. Performs skill in a safe and proficient manner, per AHJ	1		
<b>TOTAL POINTS:</b>	<b>11</b>		

**Points needed to pass: 8**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-13

Three-Firefighter Flat Shoulder Carry, Right Angle Flat Raise of a 35-foot Extension Ladder

#### **Subject: Fireground Operations**

#### **NFPA 1001 4.3.6**

#### **REFERENCE**

Set up ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished. (4.3.6)

#### **OBJECTIVE**

Trainee, operating as a member of a team, shall carry, position, and raise a 35-foot extension ladder using a flat shoulder carry, right angle raise.

#### **INSTRUCTIONS - procedures for achieving the objective**

Using a three-firefighter flat shoulder carry, you and designated persons will pick up a 35foot extension ladder and carry it 100 feet to a designated structure. Using a right-angle flat raise, you will raise the ladder to a three-story window or its equivalent. You will be required to verbalize key steps and complete the mandatory steps while performing this skill. You and your team members will raise the ladder without laying the ladder on the ground. You will be required to set the ladder with at least three rungs inside the third story window or its equivalent. You will be positioned at the butt end of the ladder for this evaluation. You will only communicate with the other team members to assure the ladder is properly carried, raised, and extended. The skill will start on my instructions to start. The skill will end when you state that the ladder is suitable for climbing. Do you understand these instructions?

#### **PREPARATION & EQUIPMENT**

35 ft. extension ladder

Three or more story structure or equivalent

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-13

Three-Firefighter Flat Shoulder Carry, Right Angle Flat Raise of a 35-foot Extension Ladder

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee, operating as a member of a team, shall carry, position, and raise a 35-foot extension ladder using a flat shoulder carry, right angle raise. (4.3.6)			
	POSSIBLE POINTS	TEST	RETEST
a. Positions firefighters: Two kneel on one side of ladder, one at either end, facing tip. The third kneels on opposite side at midpoint, also facing the tip.	1		
b. Kneeling next to the ladder at the butt end, gives a command to shoulder the ladder. All individuals stand, using leg muscles to lift the ladder. Carries the ladder 100 feet in a controlled manner.	1		
c. Places hand over butt spur, checks for obstructions on the approach to building, <i>verbalizes the area is clear of overhead obstructions</i> , spots the ladder, places butt of both beams on the ground. The verbalization must be performed prior to raising.	1		
d. Utilizes designated raise.	1		
e. The trainee being evaluated heels the ladder by standing on the bottom rung and <i>gives a command to raise the ladder</i> , crouches down to grasp either a convenient rung or the beams with both hands and leans back to help raise ladder.	1		
f. Faces the other team members and pivots ladder to set fly out (or as manufacturer's recommendation), trainee extends the fly, engages pawls.	1		
g. The trainee being evaluated ties off the halyard to a rung in a manner that will prevent the fly from slipping and that will prevent anyone from tripping while climbing and assists other team members with lowering ladder into place.	1		
h. Checks for proper climbing angle and fly extension. <i>Verbalizes that the ladder is suitable for climbing.</i>	1		
i. Performs skill in a safe and proficient manner, per AHJ	1		
<b>TOTAL POINTS:</b>	<b>9</b>		

**Points needed to pass: 6**

**Evaluator/Candidate Comments:**

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## INSTRUCTIONAL SKILLS

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## INSTRUCTIONAL SKILLS

### LADDERS FFI-14

Carry a Folding/Attic Ladder

#### **Subject: Fireground Operations**

#### **NFPA 1001 4.3.6**

#### **REFERENCE**

Set up ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished. (4.3.6)

#### **OBJECTIVE**

Trainee shall carry, position, and raise a folding/attic ladder.

#### **INSTRUCTIONS - procedures for achieving the objective**

You will pick up and carry a folding/attic ladder 100 feet to a designated structure. You will raise the ladder to an interior ceiling opening or its equivalent. You will be required to verbalize and complete mandatory steps while performing this skill. You will begin on my instruction to start. The skill will end when you indicate that the ladder is suitable for climbing. Do you understand these instructions?

#### **PREPARATION & EQUIPMENT**

Folding/attic ladder

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-14

Carry a Folding/Attic Ladder

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall carry, position, and raise a folding/attic ladder. (4.3.6)			
	POSSIBLE POINTS	TEST	RETEST
a. Standing next to the ladder, lifts and carries the ladder in the closed position, tip forward	1		
b. Carries the ladder to the interior ceiling opening or its equivalent	1		
c. Checks for obstructions, <i>verbalizes that the area is clear of overhead obstructions</i> , and then places butt in proper position. (The verbalization must be performed prior to raising the ladder.)	1		
d. While maintaining control of the ladder, pivots the ladder, if necessary, and lowers the ladder into place	1		
e. Checks for proper angle of inclination and <i>verbally indicates that the ladder is suitable for climbing</i>	1		
f. Performs skill in a safe and proficient manner, per AHJ	1		
TOTAL POINTS:	6		

**Points needed to pass: 4**

**Evaluator/Candidate Comments:**

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Instructor's Signature

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Date



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-15

Securing a Ladder

**Subject: Fireground Operations**

**NFPA 1001 4.3.6**

#### REFERENCE

Set up ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished. (4.3.6)

#### OBJECTIVE

Trainee shall secure a ladder to a stationary object.

#### 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 a stationary object. You will begin on my instruction to start. The skill will end when you indicate that the ladder is suitable for climbing. Do you understand these instructions?

#### PREPARATION & EQUIPMENT

Ladder

Rope/webbing

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### LADDERS FFI-15

#### Securing a Ladder

Trainee: \_\_\_\_\_

Department: \_\_\_\_\_

Trainee shall secure a ladder to a stationary object. (4.3.6)			
Secure Tip of Ladder	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 webbing to the tip of the ladder	1		
d. Secures the rope or webbing to a stationary 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 stationary object	1		
f. Performs skill in safe and proficient manner	1		
TOTAL POINTS:		6	

#### Points needed to pass: 4

Secure Base of Ladder	POSSIBLE POINTS	TEST	RETEST
a. Checks proper climbing angle	1		
b. Secures the rope or webbing to the base of the ladder	1		
c. Secures the rope or webbing to a stationary 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 stationary object	1		
e. Performs skill in safe and proficient manner	1		
TOTAL POINTS:		5	

#### Points needed to pass: 4

#### Evaluator/Candidate Comments:

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Instructor's Signature

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Date