



# 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

### VENTILATION FFI-1

Vertical Ventilation

#### **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, operating as a team member, shall perform vertical ventilation.

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

You will perform vertical ventilation on a structure as part of a team, given 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. You will perform this skill in a safe and proficient manner. 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**

Ventilation scenario

Ventilation prop

PPV or smoke ejector

Appropriate length and size of hose with nozzle

Tools as needed for the scenario (chain saw, axe, pike pole, etc.)

Roof ladder

Extension ladder

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### VENTILATION FFI-1

#### Vertical Ventilation

Trainee, operating as a team member, shall perform vertical ventilation. (4.3.12)

	POSSIBLE POINTS	TEST	RETEST
a. Transports and operates ventilation tools and equipment	1		
b. Selects, carries, deploys, and secures ground ladders for ventilation activities	1		
c. Deploys roof ladders on pitched roofs while secured to a ground ladder	1		
d. Sounds roof for integrity	1		
e. Hoists or carries ventilation tools to a roof as required for scenario	1		
f. Cuts roofing and flooring materials to vent flat roofs, pitched roofs, and basements as required for scenario	1		
g. Assures a clear opening with hand tools	1		
h. Uses tools as designed	1		
i. Retreats from area when ventilation is accomplished	1		
j. Performs skill in a safe and proficient manner	1		
<b>TOTAL POINTS:</b>	<b>10</b>		

**Points needed to pass: 7**

**Evaluator/Candidate Comments:**

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Instructor's Signature

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Date



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## INSTRUCTIONAL SKILLS

### VENTILATION FFI-2

#### Horizontal Ventilation

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

#### **NFPA 1001 4.3.11**

#### **REFERENCE**

Perform horizontal ventilation on a structure operating as part of a team, given an assignment, personal protective equipment, ventilation tools, equipment, and ladders, so that the ventilation openings are free of obstructions, tools are used as designed, ladders are correctly placed, ventilation devices are correctly placed, and the structure is cleared of smoke. (4.3.11)

#### **OBJECTIVE**

Trainee, operating as a team member, shall perform horizontal ventilation.

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

You will perform horizontal ventilation on a structure as part of a team, given 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. You will perform this skill in a safe and proficient manner. 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**

Ventilation prop

PPV or smoke ejector

Appropriate length and size of hose with nozzle

Tools as needed for the scenario (chain saw, axe, pike pole, etc.)

Roof ladder

Extension ladder

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### VENTILATION FFI-2

#### Horizontal Ventilation

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

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

Trainee, operating as a team member, shall perform horizontal ventilation. (4.3.11)			
	POSSIBLE POINTS	TEST	RETEST
a. Transports ventilation tools and equipment and ladders as required for scenario	1		
b. Operates ventilation tools and equipment safely	1		
c. Places ladders correctly as required for scenario	1		
d. Uses safe procedures for breaking window and door glass and removing obstructions as required for scenario	1		
e. Places ventilation devices correctly as required for scenario	1		
f. Ensures ventilation openings are free of obstructions	1		
g. Uses tools as designed	1		
h. Ensures structure is clear of smoke	1		
i. Performs skill in a safe and proficient manner	1		
TOTAL POINTS:	9		

**Points needed to pass: 6**

**Evaluator/Candidate Comments:**

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\_\_\_\_\_  
Instructor's Signature

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## INSTRUCTIONAL SKILLS

### VENTILATION FFI-3

Cleaning and Inspecting Ventilation Equipment

**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, clean and check ventilation equipment so that equipment is cleaned and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.

#### INSTRUCTIONS: Procedures for achieving the objectives

Given a tool used for ventilation and the appropriate cleaning equipment, you will verbalize the proper technique for inspecting and cleaning the ventilation tool. Actual cleaning does not need to occur for this skill. 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

PPV Fan

Negative Pressure Fan

Power Saws

Cleaning supplies

PPE appropriate for the skill



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## INSTRUCTIONAL SKILLS

### VENTILATION FFI-3

Cleaning and Inspecting Ventilation Equipment

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

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

Trainee shall inspect, clean and check ventilation equipment so that equipment is cleaned and maintained according to manufacturer or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise. (4.5.1)

	POSSIBLE POINTS	TEST	RETEST
a. Cleans and dries tool	1		
b. Inspects tool for any damage	1		
c. Inspects any safety guards present on the tool	1		
d. Checks fuel level (if applicable)	1		
e. Checks tool for proper operation	1		
f. Returns tool to a ready state or reports otherwise	1		
g. Records maintenance performed	1		
h. Performs Skill in a safe and proficient manner	1		
TOTAL POINTS:	8		

Points needed to pass: 6

Evaluator/Candidate Comments:

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Instructor's Signature

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Date