



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

VENTILATION #1

Sounding and Ventilating a Roof

Subject: Fireground Operations

NFPA 1001 5.3.11, 5.3.12

Firefighter I

OBJECTIVE

The firefighter trainee, given the necessary equipment, shall demonstrate sounding a roof for structural integrity and demonstrate ventilating both pitched and flat roofs.

INSTRUCTIONS: Procedures for achieving the objectives

Standing on the ground near the designated area, you shall climb a ladder to the edge of the roof and use an axe to sound the roof for structural integrity. Using the roof ladder, you shall climb to a designated position on the roof and cut a 4 foot X 4 foot opening at the place indicated. The hole shall be continuously cut until all sides are cut and the cut-out falls to the ground. You will be required to both verbalize key steps and complete mandatory steps while performing 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

Roof (may be simulated) Pick-head axe

14 foot roof ladder

24 foot extension ladder

Extra 4 foot x 8 foot sheets of wood

Ventilation Saw/ Chain Saw, K-12 Saw

The firefighter trainee shall accomplish the skill wearing "**FULL PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTERS**" to include, helmet, gloves, coat, trousers, boots, hood, and SCBA.



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FIREFIGHTER I: VENTILATION #1

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Candidate: _____

Notes: _____

Examiner: _____

School: _____

Test Site: _____

The firefighter trainee, given the necessary equipment, shall demonstrate sounding a roof for structural integrity and demonstrate ventilating both pitched and flat roofs.

Pitched Roof	POSSIBLE POINTS	TEST	RETEST
a. Organizes and collects equipment (starts equipment on the ground, shuts off power ventilation equipment before hoisting or carrying to the roof)	1		
b. Accesses the roof safely (proper ladder techniques)	1		
c. Sounds the roof and states that roof should spring back	1		
d. Moves roof ladder to the roof and uses it to distribute weight	1		
e. Moves tools to the roof safely, utilizing teamwork	1		
f. Selects most suitable location to ventilate based on fire location, highest point, exposures, and safety	1		
g. Works from safety of roof ladder	1		
h. Locates roof joists and rafters by sounding with tool	1		
i. Marks off the opening (scratches, etc.)	1		
j. Removes built up material	1		
k. Verbally states proper sequence of cuts	1		
l. Demonstrates both a horizontal and vertical cut	1		
m. Makes sure that the structural members are not cut	1		
n. Pushes ceiling through using pike pole or other adequate tool	1		
Flat Roof			
a. Organizes and collects equipment (starts equipment on the ground, shuts off power ventilation equipment before hoisting or carrying to the roof)	1		
b. Accesses the roof safely (proper ladder techniques)	1		
c. Sounds the roof and states that roof should spring back	1		
d. Moves roof ladder to the roof and uses it to distribute weight	1		
e. Moves tools to the roof safely, utilizing teamwork	1		
f. Selects most suitable location to ventilate based on fire location, exposures, and safety	1		
g. Works from safety of roof ladder	1		
h. Locates roof joists and rafters by sounding with tool	1		
i. Marks off the opening (scratches, etc.)	1		



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j. Removes built up material	1		
k. Verbally states proper sequence of cuts	1		
l. Demonstrates both a horizontal and vertical cut	1		
m. Makes sure that the structural members are not cut	1		
n. Pushes ceiling through using pike pole or other adequate tool	1		
TOTAL POINTS:	28		

Points needed to pass: 20

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"/>