



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

FIRE SERVICE VENTILATION # 1

Sounding and Ventilating a Roof

PERFORMANCE STANDARD

Section 8-2.3

NFPA 1001 3-3.11, (a-b)

Intermediate

OBJECTIVE

The firefighter, 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 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 plywood

Ventilation saw. Chain saw, K-12 Saw

The firefighter shall accomplish the skill wearing “**FULL PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTERS**” as required by the State Firemen's and Fire Marshals' Association of Texas to include helmet, gloves, coat, trousers, boots, and SCBA.

REFERENCE SOURCE:

IFSTA, Essentials of Fire Fighting, 4th Edition, pages 359, 372



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

FIRE SERVICE VENTILATION # 1

Sounding and Ventilating a Roof

Firefighter: _____

Notes:

Dept: _____

School: _____

Test Site: _____

Evaluator: _____

If the firefighter:

(No Partial points given)

PITCHED ROOF

- | | | | |
|----------|---|------------|--------------|
| a. | Organizes and collects equipment (Starts equipment on the ground, shuts off power ventilation equipment before hoisting or carrying to the roof.) | 1.0 | _____ |
| b. | Accesses the roof safely (proper ladder techniques) | 1.0 | _____ |
| * | c. Sounds the roof and states that roof should spring back | P/F | _____ |
| d. | Moves roof ladder to the roof and uses it to distribute weight | 1.0 | _____ |
| e. | Moves tools to the roof safely, utilizing teamwork | 1.0 | _____ |
| f. | Selects most suitable location to ventilate based on fire location, highest point, exposures, and safety | 1.0 | _____ |
| g. | Works from safety of roof ladder | 1.0 | _____ |
| h. | Locates roof joists and rafters by sounding with tool | 1.0 | _____ |
| i. | Marks off the opening (scratches, etc.) | 1.0 | _____ |
| j. | Removes built up material | 1.0 | _____ |
| k. | <i>Verbally states proper sequence of cuts</i> | 1.0 | _____ |
| l. | Demonstrates both a horizontal and vertical cut | 1.0 | _____ |
| m. | Makes sure that the structural members are not cut | 1.0 | _____ |
| n. | Pushes ceiling through using pike pole or other adequate tool | 1.0 | _____ |



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

FIRE SERVICE VENTILATION # 1

Sounding and Ventilating a Roof

FLAT ROOF

- | | | | |
|------|---|------------|--------------|
| a. | Organizes and collects equipment (Starts equipment on the ground, shuts off power ventilation equipment before hoisting or carrying to the roof.) | 1.0 | _____ |
| b. | Accesses the roof safely (proper ladder techniques) | 1.0 | _____ |
| * c. | Sounds the roof and states that roof should spring back | P/F | _____ |
| d. | Moves roof ladder to the roof and uses it to distribute weight | 1.0 | _____ |
| e. | Moves tools to the roof safely, utilizing teamwork | 1.0 | _____ |
| f. | Selects most suitable location to ventilate based on tire location, exposures, and safety | 1.0 | _____ |
| g. | Works from safety of roof ladder | 1.0 | _____ |
| h. | Locates roof joists and rafters by sounding with tool | 1.0 | _____ |
| i. | Marks off the opening (scratches, etc.) | 1.0 | _____ |
| j. | Removes built up material | 1.0 | _____ |
| k. | <i>Verbally states proper sequence of cuts</i> | 1.0 | _____ |
| l. | Demonstrates both a horizontal and vertical cut | 1.0 | _____ |
| m. | Makes sure that the structural members are not cut | 1.0 | _____ |
| n. | Pushes ceiling through using pike pole or other adequate tool | 1.0 | _____ |

Total points possible: 26

Total points needed to pass: 19

Total points scored by this firefighter: _____

All mandatory steps successfully passed: YES NO (circle one)

Performance rating of firefighter on this standard: PASS _____ FAIL _____

Circle one: First Attempt Retest



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

This page is intentionally left blank.