

Lecture	Skill	Fractional Credit
5	1	0.5

Course Description

This course involves the study of the principles of ventilation, including the methods of removing heated air, smoke and gases from a structure. This course will include a review of roof structures and their effects on ventilation procedures.

Prerequisites: FRS 1022 or consent

Corequisite: FRS 1033 or consent

Task List

1.	Define the principles of ventilation and identify the advantages and effects of proper ventilation.
2.	Identify the safety considerations and precautions to be taken while ventilating a structure.
3.	Identify the signs, causes and effects of backdraft explosion.
4.	Identify methods of preventing a backdraft explosion.
5.	Describe the advantages and disadvantages of the following types of ventilation: <ol style="list-style-type: none"> a. Vertical, b. Horizontal, c. Trench/strip, d. Mechanical, e. Mechanical pressurization, and f. Hydraulic.
6.	Define procedures for the types of ventilation referred to in #5.
7.	Identify the types of tools used during ventilation.
8.	Demonstrate determining the integrity of a roof system by sounding.
9.	Demonstrate opening various types of windows from inside and outside, with and without the use of tools.
10.	Demonstrate breaking window or door glass and removing obstructions.
11.	Using both hand and power tools, demonstrate the ventilation of both pitched and flat roofs.
12.	Recognize the characteristics of and list necessary precautions when ventilating at least the following roof types: <ol style="list-style-type: none"> a. Flat, b. Shed, c. Pitched, and d. Arched.
13.	Describe how the following factors are used to determine the integrity of a roof system: <ol style="list-style-type: none"> a. Construction. b. Visual observation, and c. Elapsed time of fire.

Lecture

Instructor Equipment List

Projection screen
Chalkboard and Marker board
Slide projector
TV/VCR

Roof ladder
Chain saw
K-12 saw
Pike Pole
Fan
Pumper attack line

Skills

Instructor Equipment List

Ax
Halligan Tool
Extension Ladder

Student Equipment List

Full protective equipment

Old FRT Number: 185 / FRT 118