

FRS 103

Firefighters Basic Skills II

45 clock hours

3 credit hours

Course	Title	Lecture/Skill		Total	Fractional Credit
FRS 1031	Building Construction	10	0	10	0.6
FRS 1032	Wildland Fire Suppression Operations	6	2	8	0.5
FRS 1033	Fire Control	15	6	21	1.4
FRS 1034	Ventilation	5	1	6	0.5

Lecture	Skill	Fractional Credit
10	0	0.6

Course Description

This course is designed to improve the ability of students to assess building stability and resistance to fire. This will aid students in protecting the lives of firefighters and community residents, while improving operational effectiveness through more complete and accurate “size-ups”. As our resources and experience are matched with those brought to the classroom by both students and instructors, each course delivery will fulfill in part the Academy’s mission—to upgrade the skills of our nation’s fire service.

Prerequisites:**Corequisite:**

Task List

1.	Describe the basic structural characteristics of the following types of building construction: a. Wood frame b. Ordinary c. Heavy timber d. Non-combustible e. Fire resistant
2.	Identify the general fire behavior expected with each type of building construction, including the spread of fire and the safety of the building, occupants, and firefighters.
3.	Describe at least 3 hazards associated with truss and lightweight construction.
4.	Identify dangerous building conditions created by fire and fire suppression activities.
5.	Identify 5 indicators of building collapse.
6.	Describe the effects of fire and fire suppression activities on the following building materials: a. Wood b. Masonry (brick, block, stone) c. Cast iron d. Steel e. Reinforced concrete f. Gypsum wall board g. Glass h. Plaster on lath
7.	Define the following terms as they relate to building construction: a. Veneer wall (exterior) b. Party wall c. Fire wall d. Partition wall e. Cantilever or unsupported wall f. Load bearing

Instructor Equipment List

Projector screen
Chalkboard or Marker board
Overhead projector
Slide projector
TV/VCR

Old FRT Number: 145 / FRT 115

6	2	0.5
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Course Description

This is an entry level course designed to familiarize firefighters with wildland fires. Items discussed in this course include: familiarization with the fire triangle, how environmental factors influence wildland fires, and the ability to recognize situations that indicate problem or extreme wildland fire behavior.

Prerequisites:**Corequisite:**

Task List

1.	Describe the fire triangle
2.	Identify three methods of heat transfer
3.	List the three principal environmental elements affecting wildland fire behavior
4.	List three factors of fuel that affects the start and spread of wildland fires
5.	List three factors of weather that affect fuel moisture
6.	Describe how wind affects wildland fire spread
7.	Describe how the slope affects wildland fire spread
8.	List four factors of topography that affect wildland fire behavior
9.	Describe the dangerous conditions that can develop in a box canyon and steep narrow canyons
10	List indicators of an approaching cold front and describe what wind changes to expect
11	List three common foehn wind conditions and the areas in which they occur
12	Identify a thunderstorm and describe how and when it is dangerous
13	Describe the daily cycle of slope and valley winds
14.	Describe the effect relative humidity has on wildland fire behavior
15.	Identify the wildland fire environment indicators that can produce problem and extreme fire behavior

Instructor Equipment List**Old FRT Number: FRT 116**

Lecture	Skill	Fractional Credit
15	6	1.4

Course Description

This course was designed to teach the student to control or extinguish stacks of Class "A" materials, combustible liquids, vehicle fires, exterior dumpster/trash bin, and Class A combustible materials within a structure.

Prerequisites: FRS 1011, 1016, 1028, 1034 or Consent **Corequisite:** NONE

Task List

1.	Extinguish or control the following live fires working as a member of a team and using appropriate protective equipment, firefighting tools, and extinguishing agents: <ol style="list-style-type: none"> Piles/stacks of class A combustible materials (exterior); Open pans of combustible liquids (exterior); Vehicle fires; Storage containers (exterior dumpster/trash bin); and Class "A" combustible materials within a structure (interior attack).
2.	Explain the procedures for extinguishing ground cover fires.

Lecture

Instructor Equipment List

Projection screen
Chalkboard or marker board
Overhead projector
Slide projector
TV/VCR

Skills

Instructor Equipment List

Class "A" pumper
Assorted hand tools
Pallets
Fuel
Straw
Vehicle
Flammable Liquid Fuel

Student Equipment List

Full Protective Clothing

Old FRT Number: 210 / FRT 117

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