

FRS 101

INTRODUCTION TO FIRE SERVICE

45 CLOCK HOURS

3 CREDIT HOURS

Course	Title	Lecture/Skill	Total	Fractional Credit	
FRS 1011	Fire Department Organization	10	0	10	0.7
FRS 1012	Fire Behavior	4	0	4	0.3
FRS 1013	Firefighter Safety	6	0	6	0.4
FRS 1014	Personal Protective Equipment	9	3	12	0.8
FRS 1015	Portable Fire Extinguishers	2	1	3	0.2
FRS 1016	Fire hose, appliances, and streams	7	3	10	0.6

FRS 1011

**Fire Department
Organization
Level 1**

Lecture Skill Fractional
Credit

10	0	0.7
----	---	-----

Course Description

This course includes an overview of fire department organization, the role of department members, the mission of the department, standard operating procedures, rules and regulations, components of management, introduction to the Incident Management System and the roles of other agencies.

Prerequisites: NONE

Corequisite: NONE

Task List

1.	Describe the organization of the fire department.
2.	Explain the Firefighter I's role as a member of the organization.
3.	Explain the mission of the fire service and of the local fire department.
4.	Explain the function of Standard Operating Procedures.
5.	Explain fire department rules and regulations that apply to the position of firefighters.
6.	Explain the components of and the firefighters role within the local incident management system.
7.	Explain the role of other agencies that may respond to emergencies.
8.	Describe the components of a member assistance program.

Instructor Equipment List

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

Old FRT Number: FRT100 / FRT 100

Lecture	Skill	Fractional Credit
4	0	0.3

Course Description

This course explores the aspects of the behavior of fire in its various forms. It looks at the classification of fuel, products of combustion, and safety issues related to life hazards. It explains the three physical states of matter in which fuels are commonly found.

Prerequisites: NONE

Corequisite: NONE

Task List

1.	Define Fire.
2.	Define Fire Triangle and Tetrahedron.
3.	Recognize the various conditions related to three (3) stages and three (3) conditions of fire and their associated hazards.
4.	Identify three products of combustion found in structural fires that create life hazards.
5.	Define the three methods of heat transfer.
6.	Define the three physical states of matter in which fuels are commonly found.
7.	Define the relationship of the concentrations of oxygen to combustibility and life safety.
8.	Describe the process of thermal layering that occurs in structural fires and how to avoid disturbing the normal layering of heat.

Instructor Equipment List

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

Old FRT Number: 105 / FRT 101

Lecture	Skill	Fractional Credit
6	0	0.4

Course Description

This course introduces the concept of safety in all phases of fire department operations. It will cover station safety in normal day-to-day fire department operations as well as emergency response.

Prerequisites: NONE

Corequisite: NONE

Task List

1.	Describe the responsibilities of a firefighter as referenced by NFPA 1500.
2.	Describe the elements of a personnel accountability system and demonstrate the application of the system at an incident.
3.	Identify dangerous building conditions created by fire.
4.	Demonstrate techniques for action when trapped or disoriented in a fire situation or in a hostile environment.
5.	Explain hazards related to electrical emergencies.
6.	Demonstrate safety procedures when using fire service lighting equipment.
7.	Demonstrate the use of seat belts, noise barriers, and other safety equipment provided for protection while riding on apparatus.
8.	Demonstrate safety procedures when mounting, dismounting and operation around fire apparatus.
9.	Shut off the utility services to a building.
10.	Identify a minimum of three common types of accidents or injuries, and their causes that occur in various fire department activities.
11.	Identify safety procedures for ensuring a safe station/facility environment.
12.	Identify potential long-term consequences of exposure to products of combustion.

Instructor Equipment List

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

Student Equipment List

Full protective equipment
SCBA

Old FRT Number: 110 / FRT 102

9	3	0.8
---	---	-----

Course Description

This course addresses the nomenclature, use, maintenance, and documentation relative to the personal protective equipment including protective clothing and self-contained breathing apparatus.

Prerequisites: FRS 1012, 1013 or Consent of Instructor **Corequisite:** NONE

Task List

1.	Identify the function of the following articles of protective equipment: a. Helmet with eye shield; b. Hood; c. Boots; d. Gloves; e. Protective trousers; f. Protective coats; g. Self-contained breathing apparatus (SCBA); h. Personal Alert Safety System (PASS); and i. Eye protection.
2.	Identify and demonstrate the care, use, inspection, maintenance, and limitations of the protective clothing and equipment.
3.	Demonstrate the donning of protective equipment.
4.	Identify hazardous environments that require respiratory protection.
5.	Identify the physical requirements of an SCBA wearer.
6.	Describe the uses and limitations of SCBA.
7.	Identify each component and safety feature of the SCBA.
8.	Describe the function of each component of the SCBA.
9.	Assure that the SCBA is in a safe condition for immediate use.
10.	Demonstrate the use of SCBA under the following condition; a. Obscured visibility, and b. Restricted passage.
11.	Demonstrate the following procedures of SCBA use; a. Emergency By-Pass Valve; b. Conservation of air; c. Regulator breathing d. Maximum use of air under working conditions; and e. Cylinder replacements.
12.	Demonstrate and document routine maintenance for SCBA, including inspection, cleaning, sanitizing and cylinder recharging.
13.	Demonstrate rescue procedures for the following: a. A firefighter with functioning respiratory protection; b. A firefighter without functioning respiratory protection; and c. A civilian without respiratory protection.

Lecture

Instructor Equipment List

Projection screen
Chalkboard or marker board
Overhead projector
Slide projector
TV/VCR
Samples of protective equipment as appropriate

Skills

Student Equipment List

Full protective equipment
SCBA
PASS Device

Old FRT Number: 115 / FRT 103

Lecture	Skill	Fractional Credit
2	1	0.2

Course Description

Relates to the types, classification and use of fire extinguishers including the definition utilized in rating each type and the selection of a given extinguisher in attacking a particular class of fire.

Prerequisites: NONE	Corequisite: NONE
----------------------------	--------------------------

Task List

- | | |
|----|--|
| 1. | Identify the classification of fires as they relate to fire extinguishers. |
| 2. | Define the portable extinguishers rating systems. |
| 3. | Identify the appropriate extinguishers and the application procedures for the various classes of fire, given a group of different extinguishers. |
| 4. | Extinguish Class A and B fires using the proper fire extinguishers. |

Lecture**Instructor Equipment List**

Projection screen
 Chalkboard or marker board
 Overhead projector
 Slide projector
 TV/VCR
 Various types of fire extinguishers
 Non-contaminated fuel
 Incendiary device
 Fuses and holder

Skills**Instructor Equipment List**

Various types of fire extinguishers
 Non-contaminated fuel
 Incendiary device

Old FRT Number: 120 / FRT 104

7	3	0.6
---	---	-----

Course Description

This course introduces the student to the types, uses and operations of fire hose, appliances and streams used in the fire service.

Prerequisites: FRS 1014 or Consent of Instructor

Corequisite: NONE

Task List

1.	Describe the application of each size and type of hose on a pumper as required to be carried by NFPA 1901.
2.	Demonstrate the use of nozzles, adapters and hose appliances and tools on a pumper as required by NFPA 1901.
3.	Advance uncharged and charged attack lines of two different sizes of 1 ½ inch or larger, from a pumper, for the following evolutions: <ul style="list-style-type: none"> a. Into a structure; b. Up a ladder to a second floor landing; c. Up an inside stairway to an upper floor; d. Up an outside stairway to an upper floor; e. Down an inside stairway to a lower floor; f. Down an outside stairway to a lower floor; and g. To an upper floor by hoisting.
4.	Demonstrate the following given fire hose used for fire attack and water supply: <ul style="list-style-type: none"> a. Three types of hose loads and finishes; b. Three types of hose rolls; c. Coupling and uncoupling two lengths; d. Two hose carries extending hose lines; and e. Replacing burst sections of hose.
5.	Demonstrate operations of a charged attack line 1 ½ inch or larger from a ground ladder.
6.	Demonstrate carrying a 100-foot attack line 1 ½ inch larger into a building, connecting it to a standpipe, and advancing the line from the standpipe.
7.	Demonstrate a hand lay of 300 feet of supply line 2 ½ inch or larger from a pumper to a water source.
8.	Define a fire stream.
9.	Define water hammer and at least one method for its prevention.
10.	Demonstrate how to open and close a nozzle and how to adjust its stream pattern and flow setting, when applicable.
11.	Identify the type, design, operation, required nozzle pressure, and flow of a given selection of nozzles and tips.
12.	Define the following methods of water application: direct, indirect, combination.
13.	Identify precautions to be followed while advancing hose lines to a fire.
14.	Identify three observable results that are obtained when the proper application of a fire stream is accomplished.

Lecture

Instructor Equipment List

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

Skills

Instructor Equipment List

Class "A" pumper

Student Equipment List

Helmet with eye protection
Gloves
Steel toe boots

Old FRT Number: 125 / FRT 105