

COURSE OUTLINE

**Fire Technology 131
Firefighter Skills Enhancement**

I. Catalog Statement

Fire Technology 131 presents advanced skill enhancement for students who have recently completed a fire academy and are currently employed in fire service. Topics include advanced fire fighting skills, advanced equipment utilization, fire fighting tactics and strategies, advanced rescue techniques and physical fitness.

Total Lecture Units: 0.0

Total Laboratory Units: 2.0

Total Course Units: 2.0

Total Lecture Hours: 0.0

Total Laboratory Hours: 96.0

Total Faculty Contact Hours: 96

Prerequisite: Fire Technology 117 or employment in a related field.

Participants are required to have appropriate personal protective equipment (PPE) to include: helmet, eye protection, safety boots, firefighter structural gloves and an approved uniform.

II. Course Entry Expectations

Skills Level Ranges: Reading 5; Writing 5; Listening/Speaking 5; Math 3.

Prior to enrolling in the course, the student should be able to:

1. explain cultural and gender-sensitivity theory;
2. demonstrate required interpersonal skills;
3. select appropriate fire extinguishing agents;
4. select appropriate protective dress;
5. use tools required to fight various fires;
6. prepare a fire response plan;
7. evaluate the effectiveness of the fire response plan;
8. evaluate the effectiveness of the fire response;

9. design fire prevention plans and methods to disseminate that information to the public.

III. Course Exit Standards

Upon successful completion of the required coursework, the student will be able to:

1. identify the nature of an emergency, i.e. fire, hazardous materials incident, rescue, or medical emergency;
2. select appropriate levels of response to an emergency situation;
3. choose tools and protective dress appropriate to the emergency;
4. formulate response plans for hazardous materials incidents, medical emergencies, and various rescue operations;
5. evaluate the effectiveness of emergency response plans;
6. evaluate the effectiveness of various emergency responses;
7. demonstrate required physical abilities;
8. inventory and maintain facilities and equipment;
9. formulate plans for working with other public agencies in both emergency and non-emergency situations.

IV. Course Content

Total Faculty Contact Hours = 96

A. Inspections	12 hours
B. Skills Testing	12 hours
C. Develop and Evaluate Hazardous Materials Emergency Response Plans	12 hours
D. Trench Rescue Awareness	12 hours
E. Swift Water Rescue Awareness	12 hours
E. Flashover Recognition and Survival	12 hours
F. Aircraft Rescue and Firefighting (Live Fire)	12 hours
G. Station Grounds and Equipment Maintenance and Operations	12 hours

V. Methods of Instruction

The following methods of instruction may be used in the course:

1. classroom lecture and demonstration;
2. multimedia lab demonstrations.

VI. Out of Class Assignments

The following out of class assignments may be used in the course:

1. individual projects (i.e. written assignment, reading reports);
2. group projects (i.e. Homework problems, problem solving demonstrations, discussion on textbook topics).

VII. Methods of Evaluation

The following methods of evaluation may be used in the course:

1. multi-company inspections and evaluations;
2. manipulative skills demonstrations;
3. physical abilities tests;
4. evaluation of emergency response plans.

VIII. Textbooks

International Fire Service Training Association (IFSTA), *Essentials of Fire Fighting and Fire Department Operations [6th Edition]*. Upper Saddle River, NJ: Prentice Hall, 2013.

10th Grade Textbook Reading Level. ISBN: 0133140806

The Study Guide for The Essentials of Firefighting, 4th Edition. Oklahoma City: Fire Protection Publications, 1998.

10th Grade Textbook Reading Level. ISBN: 0879391464

IX. Student Learning Outcomes

1. Student will be able to identify the nature of an emergency, i.e. fire, hazardous materials incident, rescue, or medical emergency.
2. Student will be able to select appropriate levels of response to an emergency situation.
3. Student will be able to choose tools and protective dress appropriate to the emergency.
4. Student will be able to formulate response plans for hazardous materials incidents, medical emergencies, and various rescue operations.
5. Student will be able to formulate plans for working with other public agencies in both emergency and non-emergency situations.