

FE105
NFPA 1001 Level I
6 Credits

Instructor: TBA

Phone:

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FE105 Version: 3



NFPA 1001 Level I

Calendar Description

This basic level course provides students with the knowledge and skills to function as an integral member of a fire department team under direct supervision in hostile environments. It includes the minimum knowledge and skill requirements for career and volunteer fire fighters whose duties involve primarily structural fire fighting.

Rationale

This is a required course for the Emergency Services Technology program.

Fire fighters face hazardous and hostile environments in the course of their jobs and should have a basic knowledge and understanding of fire and the equipment and methods used to fight it. Familiarity with standard operating procedures used in emergency response departments and the role of the fire fighter in the incident management system are essential if the student is to be a contributing member of the fire department team. The skills taught in this course provide the foundation for a competent entry-level fire fighter. This course is the starting point for a career in fire fighting and emergency response.

Prerequisites

None

Co-Requisites

None

Course Learning Outcomes

Upon successful completion of this course, students will be able to

1. define the mission of the Fire Service and explain the necessity and function of fire department rules and regulations (Standard Operating Guidelines), including fire department organization and terminology.

2. identify, explain and demonstrate correct operation of fire department communications equipment, including portable and mobile radios, to relay correctly verbal or written information in both emergency and non-emergency situations.
3. identify and explain the various hazards of a structural fire, including the hazards associated with types of building construction and various construction materials.
4. identify and demonstrate the use of the various tools used in the fire service, along with their associated uses and hazards, including personal protective equipment (SCBA and turn-out gear); various styles of ropes and knots; hoses, hose loads and hose appliances; ladders; forcible entry tools; and tarps, catchalls and water chutes.
5. identify, explain and demonstrate when and how to perform safely the activities necessary to ensure life safety, fire control, and property conservation on the fire ground, including structural search and rescue techniques, operating under hazardous conditions (IDLH atmospheres) and reduced visibility, deployment of hoses and application of effective water streams, and safe ventilation techniques.
6. identify, explain and demonstrate fire apparatus pump operations, including practical water movement on the fire ground, fire stream management, and safe driving practices.
7. identify and explain the roles and responsibilities of awareness level personnel at a hazardous materials incident.
8. identify and explain the various classes of fire and determine the appropriate size and class of portable fire extinguisher to use for extinguishment of each. Extinguish a small depth Class B fire using an appropriate portable fire extinguisher.

Resource Materials

Required Textbook:

IFSTA. (2013). *Essentials of firefighting and fire department operations* (6th ed.).

Stillwater, OK: Fire Protections Publications.

Conduct of Course

This course is presented through the use of the required text, lecture, video, field demonstrations, and D2L.

Evaluation Procedures

There is a 100 item multiple-choice exam based on the objectives with the grades determined using the grade scale under the Grades section of this course outline.

Quizzes and tests on D2L are used as assignments of the program by the faculty. The tests are used for ensuring that students are succeeding in their learning, and underachievement may lead to academic probation.

Grade Equivalents and Course Pass Requirements

The final mark is given as a letter grade.

Letter	F	B-	B	B+	A-	A	A+
Percent Range	0-69	70-74	75-79	80-84	85-89	90-94	95-100
Points	0.00	2.70	3.00	3.30	3.70	4.00	4.00

Attendance

Regular attendance is essential for success in any course. Absence for any reason does not relieve a student of the responsibility of completing course work and assignments to the satisfaction of the instructor. Poor attendance may result in the termination of a student from a course.

Course Units/Topics

Topics included but not necessarily in this order:

- Fire Behaviour and Building Construction
- Portable Fire Extinguishers
- Dangerous Goods Awareness
- Written and Oral Communication
- Personal Protective Equipment and Self-contained Breathing Apparatus
- Ropes and Knots
- Structural Search and Rescue
- Firefighter Survival
- Hose Rolls, Carries, Coupling, Loads and Lays
- Water Supply and Flow Testing
- Forcible Entry
- Ground Ladders
- Ventilation
- Salvage & Overhaul
- Sprinklers
- Fire Apparatus Preventative Maintenance
- Driving/Operating Fire Apparatus
- Pump Operations
- Equipment Cleaning and Inspection
- Structural, Vehicle and Wildland Fires



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