

# Emergency Services FireFighter (ESFF)

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## **ESFF 1000. Introduction to Emergency Services. (4 Credits)**

Explores career opportunities and job requirements of fire and rescue emergency services. Discusses the various duties within emergency services, including structural fire fighting, wildland fire fighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Provides information, skills, and facilities to help students develop personal fitness plans in preparation for fire service physical ability testing.

## **ESFF 1010. Firefighting Fundamentals I. (3 Credits)**

Corequisite(s): ESFF 1210

Discusses the history and background of the fire service. Teaches terms, definitions, and concepts of NFPA 1001 Professional Qualifications for Firefighters Level I. Includes fire behavior, ventilation rescue, forcible entry, ladders, ropes and knots, self-contained breathing apparatus, firestreams, fire hose, salvage, overhaul, fire suppression techniques, communications, fire sprinklers, and fire inspection.

Course fee of \$20 for state services & testing applies.

## **ESFF 1120. Principles of Fire and Emergency Services Safety and Survival. (3 Credits)**

Introduces the basic principles and history that relate to the 16 national firefighter life safety initiatives. Focuses on the need for cultural and behavioral change related to health and safety throughout the fire and emergency services profession. Develops professional written communication skills as well as introduces the basics of research.

## **ESFF 1210. Firefighting Skills I. (4 Credits)**

Corequisite(s): ESFF 1010

Teaches basic manipulative skills according to NFPA 1001 Firefighter Professional Standards, Level 1. Includes using forcible entry tools, using self-contained breathing apparatus, tying knots and using ropes, handling salvage covers, utilizing hose nozzles and appliances, manipulating ladders, ventilation practices, search for and removal of victims, sprinkler operations, initiating emergency response, and safety procedures. Students are required to furnish their own approved firefighter safety clothing as follows: gloves, boots, helmet, and hood.

Course fee of \$95 for specialized clothing and materials applies.

## **ESFF 1220. Firefighting Fundamentals and Skills II. (3 Credits)**

Prerequisite(s): ESFF 1010 or Departmental approval

Teaches intermediate skills as described in NFPA 1001 Level II. Builds upon the basic skills taught in ESFF 1010 and introduces new skills and knowledge in water supplies, portable extinguisher practices, inspection techniques, and rescue operations.

Course fee of \$100 for specialized clothing and materials applies.

## **ESFF 1340. Hazardous Materials First Responder. (3 Credits)**

Prerequisite(s): ESFF 1000 or department approval

Addresses the Hazardous Materials First Responder requirements of NFPA 470 and 29 CFR 1910.120. Includes definitions and classes of hazardous materials; physiological and toxicological considerations; DOT, UN and NFPA 704 labeling and placarding systems; container types and container identification. Features incident size-up using the DOT Emergency Response Guide, use of personal protective equipment and decontamination procedures. Prepares the participant to certify at both the Hazardous Materials Awareness and Operations levels.

Course fee of \$119 for materials, state services & testing applies.

## **ESFF 1360. Recruit Candidate Academy Internship. (3 Credits)**

Prerequisite(s): ESFF 250A, ESFF 250B, and department approval.

Provides an opportunity to apply knowledge, skills, and abilities learned in a realistic environment. Emphasizes work ethic, attitude, and abilities, while experiencing the fire service as a fully integrated member of a fire company in a career fire department. Establishes the importance of work ethic, attitude, and ability to adapt to highly stressful and sometimes dangerous situations. May be graded credit/no credit.

Course lab fee of \$200 for specialized clothing and materials applies.

## **ESFF 1370. Fundamentals of Apparatus Operation. (3 Credits)**

Provides basic information on driving and operating a variety of fire apparatus by meeting the knowledge requirements as listed in NFPA 1000 Professional Qualifications for Fire Apparatus Driver Operator. Includes fire pump operation, emergency driving techniques, regulations and laws, fire ground operations, apparatus maintenance and testing procedures.

## **ESFF 1380. Fire Apparatus Skills. (3 Credits)**

Teaches manipulative skills as described in Firefighter Professional Qualification Standard NFPA 1002. Includes fire apparatus operation, defensive driving, emergency driving techniques, and equipment care and maintenance. Emphasizes hands-on lab activities.

Course fee of \$55 for transportation, state services & testing applies.

## **ESFF 2100. Servant-Leadership for the Emergency Services. (3 Credits)**

Prerequisite(s): ENGL 1010 or ENGH 1005

Explores the aspiring and current emergency services learner's desire to serve and relates it to the theoretical constructs and characteristics of servant leadership. Discusses the roles and responsibilities of leadership/followership, internal and external, associated with the emergency services. Develops basic leadership/followership traits, based upon the philosophy of servant leadership.

**ESFF 2410. Hazardous Materials Technician Fundamentals. (3 Credits)**

Prerequisite(s): ESFF 1340

Teaches the knowledge requirements of NFPA 470, and CFR 1910.120 regulation for a Hazardous Materials Technician. Includes emergency response plans, classification of materials, ICS roles, personnel protective equipment needs, masks, containment and confinement concepts, decon requirements, termination concepts, toxicological and chemical terms and definitions.

**ESFF 2420. Hazardous Materials Technician Skills. (2 Credits)**

Prerequisite(s): ESFF 2410

Presents the manipulative skill requirements of NFPA 470, and CFR 1910.120 regulation for a Hazardous Materials Technician. Teaches handling simulated incidents, classifying materials, performing in ICS roles, using personnel protective equipment, containment and confinement operations, setting up and operating decon, diking, plugging, and patching operations.

Course fee of \$55 for specialized clothing, state services & testing applies.

**ESFF 2430. Hazardous Materials Chemistry. (3 Credits)**

Presents in-depth chemical information for hazardous materials responders. Teaches basic knowledge of how to evaluate potential hazards and behaviors of hazardous materials. Provides the underlying reasons for chemical reactions of hazardous materials. Includes decision-making abilities, safe operations, and handling.

Course fee of \$40 for specialized clothing, materials applies.

**ESFF 250A. Firefighter Recruit Candidate Academy I. (8 Credits)**

Prerequisite(s): Matriculated into the Recruit Candidate Academy or Department approval

Addresses the first part of the cognitive and psychomotor requirements of Firefighter I and Firefighter II certification. Includes basic firefighting topics and related skills, including fire behavior, building construction, personal protective equipment, tools, appliances, firefighter safety, forcible entry, and apparatus. Prepares students to certify at the Fire Fighter I and Fire Fighter II levels.

**ESFF 250B. Firefighter Recruit Candidate Academy II. (8 Credits)**

Prerequisite(s): Matriculated into the Recruit Candidate Academy or Department approval

Pre- or Corequisite(s): ESFF 250A

Addresses the second part of the cognitive and psychomotor requirements of Firefighter I, Firefighter II, and Hazardous Materials Awareness and Operations certification. Includes basic firefighting topics and related skills. Addresses the Hazardous Materials First Responder requirements of NFPA 470 and 29 CFR 1910.120. Includes definitions, classes of hazardous materials, physiological and toxicological considerations, and labeling and placarding systems. Prepares students to certify at the Fire Fighter I, Fire Fighter II, and Hazardous Materials Awareness and Operations levels.

**ESFF 2700. Technical Rescue Principles. (3 Credits)**

For those with limited fire and emergency services training. Addresses the prerequisite knowledge and skills for technical rescue job performance.

Applies the Incident Command System to the management of technical rescue operations, resources and hazards. Includes search and rescue techniques, victim care and extrication, and the use of ropes and rigging.

Course fee of \$70 for equipment, materials applies.

**ESFF 2710. Environmental Rescue. (3 Credits)**

Prerequisite(s): ESFF 1220

Includes analysis and simulation of problems such as wilderness search and rescue, still and swift water rescue, avalanche and mountain rescue.

Discusses disaster planning and management as well as rescues from the work place and industrial settings.

Course fee of \$70 for specialized clothing, materials, and transportation applies.

**ESFF 2730. Rope Rescue. (3 Credits)**

Prerequisite(s): ESFF 1340; or departmental approval

Meets the rope rescue job performance requirements of NFPA 1006, Standard for Rescue Technician Professional Qualifications. Addresses various types and configurations of rope rescue systems. Includes compound mechanical advantage systems, rescuer suspension systems, high-angle and vertical victim rescue systems, construction and operation of highline systems, and ascent/ decent procedures.

Course fee of \$70 for equipment, materials applies.

**ESFF 281R. Emergency Services Internship. (1-6 Credits)**

Prerequisite(s): Department approval

Provides a paid or unpaid, on-the-job work experience that includes faculty, peer and/or employer evaluations. Includes on-site work visits when appropriate, written assignments, and oral presentations if required. Provides experience in writing and completing individualized work objectives and/or projects that improve present work performance. May require student advocate services to current students. May be repeated for a maximum of 6 credits towards graduation. May be graded credit/no credit.