

Fire Service Technology Associate of Applied Science Degree

Course Descriptions

Rapid Intervention Team Training Firefighter Safety and Survival

In accordance with NFPA 1500 and O.S.H.A. 1910.134 (2 in/2 out - The Final Ruling), This course will guide the participant through each step of the process of planning for, organizing and implementing a Rapid Intervention Team in their department, *no matter what size their manpower or equipment may be*. The main focus will be that these Rapid Intervention Teams can be implemented with very little or no additional manpower or equipment.

Fire Fighter I

Credit for course given for state or national certification to NFPA 1001 Firefighter I. Identifies the professional levels of competence required of fire department members, especially the requirements for entrance into the fire department, and the first three levels of progression thereafter.

Fire Fighter II

This course is designed for the Fire Fighter I who is ready to assume more of a leadership role in a department. This course consists of classes designed to give the student more knowledge of fire ground situations so that he/she can make basic evaluation of safety problems and assume leadership roles in carrying out interior attack and search operations.

Technical Rescue - Operations Elective

Presents elementary procedures of rescue practices, systems, components, support and control of rescue operations. Introduces basic ladder procedures, ropes/knots, and basic rescue tools and equipment. Applies techniques and tools of extrication, emphasizing applications to traffic accidents.

Flashover Survival Training

Participants experiences actual flashover-like conditions in a controlled environment called the "Flashover Unit". provides the student with the knowledge and experience required to size-up conditions, recognize the potential and warning signs of Flashover, and delay or prevent its occurrence.

Hazardous Materials Awareness

Provides an overview of the numerous federal, state, and local laws, codes, and regulations governing hazardous materials. This course is confined to the storage, handling, and release of hazardous materials. Describes the legal limitations and liabilities of responders, as well as business owners. Gives an in-depth profile of dealing with the disposal of hazardous waste

Hazardous Materials Operation

Provides knowledge and skills necessary to safely respond to and manage the defensive operations involved in a chemical emergency.

Wildland Basic Firefighter II

taught to the Northwest Wildland Coordinating Group (NWCG) standards. Topics will include safety, basic skills of the job and basic wildland fire behavior. Information about operations on fires in the urban interface also will be covered.

Wildland/Urban Interface

Studies causes and prevention of natural cover fires, ground cover fire behavior, standard firefighting orders, urban interface problems, fire suppression methods and fireground management. Meets requirements of National Wildfire Coordinating Group (NWCG) S-215.

Basic First Aid and CPR

Includes Adult CPR (identifying and caring for breathing and cardiac emergencies for adults, teenagers and preteens; use of an Automated External Defibrillator for a victim of sudden cardiac arrest; heart disease prevention; injury prevention) and first aid (control of bleeding, sudden illness and burns). Meets OSHA requirements.

Arson Detection for First Responders

Emphasizes the importance of determining the cause of fire. Studies the burning characteristics of combustibles and the effects of fire on materials, interpreting burn patterns and isolating the area and point of origin, identifying incendiary indications, sources of ignition and materials ignited and preservation of fire scene and evidence.

Building Construction Combustible

Introduction to fire problems relating to building construction; analysis of building construction, materials and constructional design methods; focus on needs and requirements of institutional, mercantile, and industrial structures before, during, and after construction periods.

Building Construction Non Combustible

The failure of a building or building components under fire conditions is a leading cause of fire fighter death and injury. The ability to recognize and locate relevant information about a building before a fire, and to "read" a building during the course of a fire incident, are essential survival skills. This course gives the student the ability to accomplish these tasks when confronted with a building of fire-resistant or non-combustible construction. The unique problems of conducting emergency operations in buildings under construction are also addressed.

Incident Command System

This course is designed to meet the needs of fire officers and managers with responsibilities to use, deploy, implement, and/or function within the Incident Command System (ICS). This program addresses the need for incident management systems, an overview of the structure and expandable nature of ICS, an understanding of the command skills needed by departmental officers to use ICS guidelines effectively, and scenario practice on how to apply ICS. In addition, appendices provide guidelines and resource information for setting up and implementing a departmental ICS.

Infection Control for Emergency Response Personnel: The Supervisor's Role

The course stresses protection of the individual and department/station from the full range of communicable diseases spread through occupational exposures. Appropriate target audiences for the course include supervisors from career and volunteer fire service, emergency medical service, and allied professional organizations. Private sector and public sector third service emergency health care providers also will benefit from this instruction. Training is compatible with existing NFPA standards and applicable federal regulations.

Driver Operator/Pump Operations

This course provides the fire fighter with an introduction to basic pump construction and theory as well as operating techniques. Emphasis is placed on getting water to the pump, getting water from the pump for hose streams, and prevention of common mistakes in pump operations.

Fire Officer I

Emphasizes the role of fire service leaders in managing the daily operations of a fire company. Covers leadership concepts such as types of supervisors, including attitudes, cooperation, individual differences, motivation, communications and counseling as part of the management cycle. Credit given for national or state certification to NFPA 1021 Fire Officer Professional Qualifications.

Instructor I

Provides training to instructor candidates from multi-discipline activities found within Public Safety (fire, law enforcement, wildland, emergency medical services, etc.). Prepares the program participants for planning instruction, using a variety of instructional methods, teaching diverse learners, and evaluating course outcomes. Includes guidelines for addressing the critical issues of safety and the legal issues of training, and provides opportunities for participants to take part in application activities. This course meets the competency standards established by the National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications, Instructor I.

CIS 104 OPERATING SYSTEMS AND WORD PROCESSING TOPICS

Introduces computer and technology concepts, and develops skills using current home/office and internet productivity software. Basic functions of the operating system, basic to intermediate word-processing skills, introduction to hardware, software, internet and networking concepts for use in the workplace, educational settings, and the home.

CIS 105 SPREADSHEET TOPICS

Basic to intermediate spreadsheet skills development, hardware, software, internet and networking concept materials for use in the workplace, educational settings, and the home. PREREQ: CIS104 or successful completion of a placement exam for CIS 104.