Fire Fighting

Fire Fighting is a one-credit course designed to provide students with information regarding career possibilities in fire fighting, including instruction in techniques of fire fighting. Topics include career opportunities, safety, fire prevention and control, hazardous materials, sprinkler systems, first responder, and public relations.

Content standards for this course are not intended to serve as the entire curriculum. Teachers are encouraged to expand the curriculum beyond these minimum required content standards to accommodate specific community interests and utilize local resources. This course encourages critical thinking, use of the scientific method, integration of technology, development of student leadership skills, and application of knowledge and skills related to practical questions and problems. Safety concepts are integrated into instruction to the maximum extent possible.

Career and technical student organizations are integral, cocurricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

Career Opportunities

Students will:

1. Describe career opportunities in fire fighting.

Safety

2. Interpret local, state, and federal regulations pertaining to fire safety issues.

Fire Prevention

3. Assess the importance of fire prevention.
   • Identifying common causes of fires and their prevention
   • Describing fire inspection procedures for private dwellings
   • Practicing school fire drill procedures
   • Conducting a building fire-safety survey
   • Describing smoke, heat, and flame detection alarm systems

Sprinkler Systems

4. Evaluate fire control sprinkler systems, including pendant, upright, and sidewall designs.
   • Identifying sprinkler system control valves

5. Identify fire control procedures for all classes of fires.
Fire Control

6. Describe loss control procedures for fire-damaged property.

Hazardous Materials

7. Assess dangers of various hazardous materials.
   - Comparing the three parts of the incident management triangle as outlined in the National Fire Protection Association (NFPA) 472: Standard for Professional Competence of Responders to Hazardous Materials
   - Defining strategic goals, tactical objectives, and tactical methods as outlined in the NFPA 472 document
   - Describing sources used to identify specific hazardous materials
   - Defining common physical and chemical properties of hazardous materials

First Responder

8. Describe roles and responsibilities of a first responder.
   Examples: assessing vital signs of a sick or injured person, assessing environmental threats, demonstrating basic life support (BLS) procedures, assessing for spinal injury

Public Relations

9. Develop a public relations program for promoting fire prevention and safety.