

LAW, PUBLIC SAFETY AND SECURITY (CAREER CLUSTER)
CERTIFICATION-LEVEL FIREFIGHTER II
COURSE CODE: 6515

NOTE: This course is based on the learning objectives listed in IFSTA's *Essentials of Fire Fighting*, 7th Edition (2019), Stillwater, OK: Fire Protection Publications, Oklahoma State University. These objectives have been further modified by the South Carolina Fire Academy including the addition of Basic Auto Extrication course to meet the needs of the South Carolina fire service. In some cases, the numbering of the objectives may be different than in the SCFA curriculum and the textbook but they address the same concepts and skills.

Course completion alone does not meet the criteria for achieving national certification for Fire Fighter II. National-level firefighter certification testing is separate. The National Fire Protection Association (NFPA) establishes minimum standards for various levels of fire service certification. Requirements for meeting NFPA 1001 (2019), *Standard for Fire Fighter Professional Qualifications* can be viewed online at NFPA.org. After each objective listed below, the NFPA standard items that correspond to the objective are noted in parentheses.

RECOMMENDED GRADE LEVELS: 9 - 12

CREDIT: 1 unit (120 hours), 2 units (240 hours)

PREREQUISITE: Firefighter 1

RESOURCES: [Instructional Materials](#)

A. STUDENT ORGANIZATIONS

1. Identify the purpose and goals of a Career and Technology Student Organization (CTSO).
2. Explain how CTSOs are integral parts of specific clusters, majors, and/or courses.
3. Explain the benefits and responsibilities of being a member of a CTSO.
4. List leadership opportunities that are available to students through participation in CTSO conferences, competitions, community service, philanthropy, and other activities.
5. Explain how participation in CTSOs can promote lifelong benefits in other professional and civic organizations.

B. TECHNOLOGY KNOWLEDGE

1. Demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation.
2. Identify proper netiquette when using e-mail, social media, and other technologies for communication purposes.
3. Identify potential abuse and unethical uses of laptops, tablets, computers, and/or networks.

4. Explain the consequences of social, illegal, and unethical uses of technology (e.g., piracy; cyberbullying, illegal downloading; licensing infringement; inappropriate uses of software, hardware, and mobile devices in the work environment).
5. Discuss legal issues and the terms of use related to copyright laws, fair use laws, and ethics pertaining to downloading of images, photographs, documents, video, sounds, music, trademarks, Creative Commons, and other elements for personal use.
6. Describe ethical and legal practices of safeguarding the confidentiality of business-related information.
7. Describe possible threats to a laptop, tablet, computer, and/or network and methods of avoiding attacks.

C. PERSONAL QUALITIES AND EMPLOYABILITY SKILLS

1. Demonstrate creativity and innovation.
2. Demonstrate critical thinking and problem-solving skills.
3. Demonstrate initiative and self-direction.
4. Demonstrate integrity.
5. Demonstrate work ethic.
6. Demonstrate conflict resolution skills.
7. Demonstrate listening and speaking skills.
8. Demonstrate respect for diversity.
9. Demonstrate customer service orientation.
10. Demonstrate teamwork.

D. PROFESSIONAL KNOWLEDGE

1. Demonstrate global or “big picture” thinking.
2. Demonstrate career and life management skills and goal-making.
3. Demonstrate continuous learning and adaptability skills to changing job requirements.
4. Demonstrate time and resource management skills.
5. Demonstrates information literacy skills.
6. Demonstrates information security skills.
7. Demonstrates information technology skills.
8. Demonstrates knowledge and use of job-specific tools and technologies.
9. Demonstrate job-specific mathematics skills.
10. Demonstrates professionalism in the workplace.
11. Demonstrates reading and writing skills.
12. Demonstrates workplace safety.

E. BUILDING MATERIALS, STRUCTURAL COLLAPSE, AND EFFECTS OF FIRE SUPPRESSION

1. Describe the effects of fire on various building materials. [5.3.2]
2. Describe factors that contribute to structural collapse. [5.3.2]
3. Identify indicators of structural instability and collapse. [5.3.2]
4. Explain considerations to be taken when establishing collapse zones. [5.3.2]

5. Describe actions that should be taken when structural collapse is imminent. [5.3.2]
6. Describe building conditions and fire suppression activities that can impact fire spread and structural stability. [5.3.2]

F. TECHNICAL RESCUE SUPPORT AND VEHICLE EXTRICATION OPERATIONS

(Material focused on vehicle extrication is imbedded in the South Carolina Fire Academy 3330 Basic Auto Extrication course.)

1. Describe the duties of a Fire Fighter II at a technical rescue incident. [5.4.2]
2. Describe rescue practices and goals at various types of rescue incidents. [5.4.2]
3. Identify tools used at technical rescues. [5.4.1, 5.4.2]
4. Identify vehicle construction methods and components. [5.4.1]
5. Describe size-up and hazard recognition at a vehicle extrication incident. [5.4.1]
6. Describe vehicle stabilization operations. [5.4.1]
7. Describe techniques used to access victims at a vehicle extrication incident. [5.4.1]
8. Demonstrate performance tasks.

G. FOAM FIREFIGHTING, LIQUID FIRES AND GAS FIRES

1. Describe methods used to generate firefighting foam. [5.3.1]
2. Identify materials and equipment needed to generate firefighting foam. [5.3.1]
3. Describe methods of foam application. [5.3.1]
4. Describe operations involving liquid and gas fuel fires. [5.3.1, 5.3.3]
5. Demonstrate performance tasks.

H. INCIDENT SCENE OPERATIONS

1. Explain the process of initiating incident operations. [5.1.1, 5.1.2, 5.3.2]
2. Explain the process of transferring Command. [5.1.1]
3. Describe the duties of a unit or team leader during fireground operations. [5.2.2, 5.3.2]
4. Explain the use of post-incident reports. [5.2.1]
5. Demonstrate performance tasks.

I. FIRE ORIGIN AND CAUSE DETERMINATION

1. Identify the roles and responsibilities of firefighters and fire investigators at a fire investigation. [5.3.4]
2. Explain the process of determining area of origin. [5.3.4]
3. Explain the process of fire cause determination. [5.3.4]
4. Describe considerations related to evidence preservation. [5.3.4]

5. Demonstrate performance tasks.

J. MAINTENANCE AND TESTING RESPONSIBILITIES

1. Describe equipment maintenance procedures. [5.5.4]
2. Explain the process of service testing fire hose. [5.5.5]
3. Demonstrate performance tasks.

K. RISK REDUCTION

1. Explain the importance of fire and life safety programs. [5.5.1]
2. Describe fire safety surveys for private dwellings. [5.5.1]
3. Explain the role of a Fire Fighter II with regard to fire and life safety presentations. [5.5.2]
4. Explain the process of conducting and documenting a pre-incident survey. [5.5.3]
5. Demonstrate performance tasks.

L. NATIONAL INCIDENT MANAGEMENT SYSTEM-INCIDENT COMMAND

NOTE: The following objectives relate to the Fire Fighter I and II sections of NFPA 1001 and 1072. Instructors may use this information when discussing fire service organizational structure in Fire Fighter I and/or as a refresher in Fire Fighter II.

1. Describe the function of each section within the NIMS-ICS organizational structure. [4.1; NFPA 1072, 5.4.1]
2. Explain the process of establishing and transferring command of an incident. [NFPA 1072, 5.4.1]
3. Identify the traits and values of an effective leader. [NFPA 1072, 5.4.1]
4. Explain how incidents are managed. [5.1; NFPA 1072, 5.4.1]
5. Describe the use of an Incident Action Plan. [NFPA 1072, 5.4.1]