

FS 106 Articulation Competencies

Basic Fire Science (10 Credits)

Through a combination of lecture and hands-on training, students will learn how to perform basic functions of structural firefighting in a safe and effective manner. This course in combination with Intermediate Fire Science (FS 121) will include an embedded certification of IFSAC Firefighter One.

Upon completion of this course, successful students will score 80% or better on the following competencies to receive WVC college credits.

Student Learning Outcomes:

CATEGORIES			
1. Problem Solving:	A. Critical Thinking B. Creative Thinking C. Quantitative Reasoning D. Qualitative Reasoning	3. Social Interaction:	A. Collaboration B. Ethical Conduct C. Professional Conduct D. Cultural Diversity
2. Communication:	A. Oral Expression B. Written Expression C. Artistic Expression	4. Inquiry:	A. Information Literacy B. Research C. Documentation

Course Competencies Checklist:

- Understand the important elements of firefighter safety. (1A, 2A, 4B)
- Describe the elements of fire behavior. (1A, 2A)
- Demonstrate the use of personal protective equipment. (1A)
- Perform building search and rescue. (1A, 2A, 3C)

Program Outcomes:

Graduates of the Fire Science ATS degree program will be able to:

- Possess the industry recognized skills required for entry-level employment as a firefighter, meeting International Fire Service Accreditation Congress (IFSAC) standards for Firefighter I, Firefighter II, Hazardous Materials Operations and other industry standards.
- Demonstrate and appropriately use fire service equipment and procedures in conjunction with a variety of emergency response incidents; possess industry recognized apparatus operation knowledge, skills and abilities.
- Identify fire protection systems used in various occupancies including sprinkler systems, extinguishing agents, early warning devices, fire pumps, smoke and flame detection, and standpipes.
- Possess industry recognized hazardous materials first responder competencies to the level of First Responder Operations.
- Demonstrate the principles of effective risk management during incident operations including managing emergency scene safety with multiple responding units regarding the resources of time, personnel, equipment and jurisdictional authority.
- Understand the ethical responsibilities and consequences of working in an emergency services-related environment.
- Demonstrate critical thinking, problem solving abilities, teamwork, communication, intercultural appreciation, and technical and information literacy skills as they apply to the fire service.
- Demonstrate employee traits considered strong in a professional work environment: dependability, appearance, positive attitude, thoroughness, timelines, safety, and the human relations skills necessary for work in emergency services.
- Apply basic firefighting skills to a wild land/urban interface environment.
- Have a thorough knowledge of the hiring process to include Civil Service Examinations.

Core Topics:

- Incident Command System
- Firefighter Safety and Health
- Fire Behavior
- Firefighter Personal Protective Equipment
- IFSAC FF1 Preparation