

Adopted

**Career Technical Credit Transfer (CT²)
Fire Fighter I
Career Technical Assurance Guide (CTAG)
October 17, 2008**

The following course or Career-Technical Assurance Number (CTAN) is eligible for transfer between career-technical education, adult workforce education, and post-secondary education.

CTFFI002 – Fire Fighter I

For qualification at Level I, the Fire Fighter I shall meet the general knowledge requirements, the general skill requirements, the Job Performance Requirements (JPRs) defined later in this document.

General Knowledge Requirements: Responsibilities of the Fire Fighter in the organization of the fire department; the role of the Fire Fighter I in the organization; the mission of fire service; the fire department’s standard operating procedures (SOPs) and rules and regulations as they apply to the Fire Fighter I; the role of other agencies as they relate to the fire department; aspects of the fire department’s member assistance program; the importance of physical fitness and a healthy lifestyle to the performance of the duties of a fire fighter; the critical aspects of NEPA 1500, Standard on Fire Department Occupational Safety and Health Program, as they apply to the Fire Fighter I.

General Skills Requirements: The ability to don personal protective clothing within 1 minute; doff personal protective clothing and prepare for reuse; hoist tools and equipment using ropes and the correct knot; and locate information in departmental documents and standard or code materials.

Advising Notes: Submitted course work must include proof of completing the Ohio Department of Public Safety’s, Division of Emergency Medical Services, Office of Fire Service, *Knowledge and Skills Document*.

Prerequisite: For course credit a current and valid Ohio Fire Fighter I certification is required and completion of Fire Fighter I training course offered by an Ohio public state-assisted career-technical institution (secondary or adult) or a state supported college or university.

Credits: *5 Semester or 8 Quarter Hours *Unless previous credit earned for Volunteer Fire Fighter in which case the balance of 5 semester or 8 quarter hours will be awarded (see Volunteer Fire Fighter CTAG for credit hours).

Module 5.1	General
Module 5.2	Communications
Module 5.3	Fireground Operations
Module 5.4	Rescue Operations – No Requirements
Module 5.5	Prevention, Preparedness, Maintenance

Note: Credit hours assigned to CTAGs are “relative values,” which are used to help determine the equivalency of submitted coursework or content. Once approved by a validation panel as a CT² course, students will be given what the receiving institution is offering as credit for its CT² approved course.

The CTAG illustrates the learning outcomes that are equivalent or common in introductory technical courses. In order for completers to receive the indicated credit, institutions must document that their course/program content matches the learning outcomes in the CTAGs. The program outcomes identified below represent the **technical course/content** found in Fire Fighter I programs as defined by The Ohio Department of Public Safety Division of Emergency Medical Services. Completers must also hold certain licenses and/or certifications or have satisfied specific external validators such as the examination to become certified as an Ohio Fire Fighter I.

Pertinent to H. B. 66 legislation, industry standards and certifications provide documentation of student learning. Recognized industry standards are expectations established by business, industry, state agencies, or professional associations that defines training program curricular requirements, establishes certification or licensure criteria, and often serves as the basis for program accreditation.

Institutional Requirements and Credit Conditions:

1. The sending institution must have a charter from the Ohio Department of Public Safety, Division of Emergency Medical Services to offer Fire Fighter education courses.
2. The applicant must provide proof to the receiving institution that she/he holds a current and valid State of Ohio Fire Fighter I certification.
3. The applicant must provide proof to the receiving institution that she/he has completed a Fire Fighter I training course offered by a public assisted Ohio career-technical institution (secondary or adult) or state supported college.
4. Candidates for graduation from collegiate or university programs may have to satisfy additional degree requirements associated with the basic related or general education studies.
5. Admission requirements of individual institutions and/or programs are unaffected by the implementation of CT² outcomes.
6. Institutional residency requirements may affect the amount of transfer credit.

CTFFI002 – Fire Fighter I

Subject Codes - Ohio Board of Regents Subject Codes Valid at Level for Fire Fighter I

430203	FIRE SCIENCE/FIRE-FIGHTING	A PROGRAM THAT PREPARES INDIVIDUALS TO PERFORM THE DUTIES OF FIRE FIGHTERS. INCLUDES INSTRUCTION IN FIRE-FIGHTING EQUIPMENT OPERATION AND MAINTENANCE, PRINCIPLES OF FIRE SCIENCE AND COMBUSTIBLE SUBSTANCES, METHODS OF CONTROLLING DIFFERENT TYPES OF FIRES, HAZARDOUS MATERIAL HANDLING AND CONTROL, FIRE RESCUE PROCEDURES, PUBLIC RELATIONS AND APPLICABLE LAWS AND REGULATIONS.
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Ohio Department of Education Subject Codes Pertinent to Fire Fighter I and II

<p>17.2801 (43.0203)</p>	<p>FIRE FIGHTER LEVEL I AND II</p>	<p>THIS COURSE MEETS THE REQUIREMENT IN THE OHIO REVISED CODE REGARDING THE CERTIFICATION OF A FULL-TIME PAID FIRE FIGHTER. SPECIALIZED CLASSROOM AND PRACTICAL INSTRUCTION AND LEARNING EXPERIENCES THAT ARE CONCEREND WITH THE PRACTICES AND TECHNIQUES OF FIREFIGHTING. INSTRUCTION IS TO INCLUDE THE FOLLOWING TOPIC AREAS TAKEN FROM THE NFPA 1001 FIRE FIGHTER I AND II: FIRE DEPARTMENT ORGANIZATION, SAFTEY, FIRE ALARMS AND COMMUNICATIONS, FIRE BEHAVIOR, PROTABLE EXTINGUISHERS, PERSONAL PROTEECTIVE EQUIPMENT, FORCIBLE ENTRY, VENTILATION, ROPES, LADDERS, FIRE HOSE, FIRE APPLICANCES, FIRE STREAMS, FIRE CONTROL, SALVAGE, OVERHAUL, EMPERGENCY MEDICAL CARE, RESCUE, WATER SUPPLIES, SPRINKLERS, RESPONSE TO HAZARDOUS MATERAILS INDIDENTS, FIRE PREVENTION, PUBLIC EDUCATION, FIRE CAUSE TERMINATION, AND BUILDING CONSTRUCTION.</p>
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Learning Outcomes

Summary of Learning Outcomes **All outcomes essential**

Note: In an effort to limit the size of the CTAG, the learning outcomes are shown as a topic outline and were taken from the Fire Fighter I curricula that provides the detailed behavioral objectives as called for in the NFPA 1001 Standards as well as in the *Knowledge and Skills Document* of the Ohio Department of Public Safety, Division of Emergency Medical Services, Office of Fire Services.

Note: The following Learning Objectives are based on Chapter 5 of the 2008 standards of NFPA 1001.

- 5.1 Module 5.1 General
 - 5.1.1 General Knowledge Requirements
 - 5.1.2 General Skill Requirements
- 5.2 Module 5.2 Fire Department Communication
 - 5.2.1 Emergency Response
 - (A) Requisite Knowledge
 - 1) Department SOP's
 - 2) Radio Codes
 - 3) Dispatch Center
 - (B) Requisite Skills
 - 1) Operate Communications Equipment

- 2) Relay Information
 - 3) Record Information
 - 5.2.2 Receive Call
 - (A) Requisite Knowledge
 - 1) Procedures for Nonemergency Calls
 - (B) Requisite Skills
 - 1) Operate Telephone and Intercom Systems
 - 5.2.3 Communication
 - (A) Requisite Knowledge
 - 1) Radio Procedures
 - (B) Requisite Skills
 - 1) Operate Radio Equipment
- 5.3 Module 5.3 Fireground Operations
 - 5.3.1 Self-Contained Breathing Apparatus (SCBA)
 - (A) Requisite Knowledge
 - 1) SCBA Components, Donning, Physical Requirements
 - (B) Requisite Skills
 - 1) Control Breathing
 - 2) Replace Air Cylinders
 - 3) Complete Emergency Procedures
 - 5.3.2 Response Safe
 - (A) Requisite Knowledge
 - 1) Mounting and Dismounting
 - 2) Personal Protective Equipment
 - (B) Requisite Skills
 - 1) Utilize Safety Equipment
 - 5.3.3 Scene Control
 - (A) Requisite Knowledge
 - 1) Hazards Involved on Emergency Scenes
 - 2) Dismounting apparatus in traffic
 - 3) Procedures for safe operation at emergency scenes
 - 4) Personal Protective Equipment
 - (B) Requisite Skills
 - 1) Utilize personal protective clothing
 - 2) Deploy Traffic and Scene Control Devices
 - 3) Dismount Apparatus

- 5.3.4 Forcible Entry
 - (A) Requisite Knowledge
 - 1) Basic construction of typical doors, windows, and walls
 - 2) Operation of Doors, and Windows
 - 3) Dangers of Forced Entry
 - (B) Requisite Skills
 - 1) Transport and Operate Hand and Power Tools
 - 2) Force Entry
- 5.3.5 Exit Hazard
 - (A) Requisite Knowledge
 - 1) Personnel Accountability
 - 2) Communication Procedures
 - 3) Emergency Evacuation Methods
 - 4) Hazards
 - 5) Emergency Procedures for Loss of Air Supply
 - (B) Requisite Skills
 - 1) Operate as a Team Member
 - 2) Locate and Follow a Guideline
 - 3) Conserve Air Supply
 - 4) Safe Haven
- Module 5.3.6 Ground Ladders
 - (A) Requisite Knowledge
 - 1) Parts
 - 2) Hazards
 - 3) Placement
 - 4) Angles
 - 5) Reliable Structural Component
 - (B) Requisite Skills
 - 1) Carry ladders
 - 2) Raise Ladders
 - 3) Extension Height Requirements
- 5.3.7 Vehicle Fire
 - (A) Requisite Knowledge
 - 1) Fire Streams
 - 2) Precautions
 - 3) Alternative Fuels and Hazards
 - 4) Dangerous Conditions

- 5) Accidents and Injuries
 - 6) Access
 - 7) Overhauling
- (B) Requisite Skills
- 1) Automobile Fuel Type
 - 2) Fuel Leaks
 - 3) Nozzles
- 5.3.8 Exterior Fire
- (A) Requisite Knowledge
- 1) Attack lines and Water Streams
 - 2) Extinguishing Agents
 - 3) Extinguishment
 - 4) Water Application
 - 5) Hazardous Materials
 - 6) Origin and cause
- (B) Requisite Skills
- 1) Hazard Recognition
 - 2) Handlines and Master Streams
 - 3) Hand Tools and water streams
 - 4) Hose Lines
 - 5) Hidden Fires
- 5.3.9 Do Search
- (A) Requisite Knowledge
- 1) Forcible Entry Tools
 - 2) Ladder Operations
 - 3) Primary and Secondary Search Techniques
 - 4) Team Members' Roles and Goals
 - 5) Victims
- (B) Requisite Skills
- 1) SCBA
 - 2) Types of Rescue Operations
 - 3) Rescue a Fire Fighter
- 5.3.10 Interior Attack
- (A) Requisite Knowledge
- 1) Fire Streams
 - 2) Nozzles
 - 3) Hose Lines

- 4) Exposure Protection
 - 5) Accidents and Injuries
 - 6) Roles of Backup Team
 - 7) Attack and Control Techniques
- (B) Requisite Skills
- 1) Nozzles
 - 2) Direct, Indirect, and Combination Attacks
 - 3) Hoses
 - 4) Handline Connections
- 5.3.11 Horizontal Ventilation
- (A) Requisite Knowledge
- 1) Ventilation
 - 2) Safety
 - 3) Fire Behavior
 - 4) Products of Combustion
 - 5) Backdrafts
- (B) Requisite Skills
- 1) Ventilation Tools and Equipment
 - 2) Ladders
 - 3) Procedures
- 5.3.12 Vertical Ventilation
- (A) Requisite Knowledge
- 1) Vertical Ventilation
 - 2) Personal Protective Equipment
 - 3) Ground and Roof Ladders, and Tools
 - 4) Ventilation Barriers
 - 5) Structural Integrity
 - 6) Products of Combustion
- (B) Requisite Skills
- 1) Transport and Operate Ventilation Tools and Equipment
 - 2) Hoist Ventilation Tools
 - 3) Clear an Opening with Hand Tools
 - 4) Ground Ladders
 - 5) Roof Ladder
 - 6) Ventilation-related Tools and Equipment

- 5.3.13 Overhaul
- (A) Requisite Knowledge
 - 1) Attack Lines
 - 2) Water Application Devices
 - 3) Water Application Methods
 - 4) Area of Origin
 - 5) Arson
 - (B) Requisite Skills
 - 1) Deploy and Operate an Attack Line
 - 2) Remove Flooring, Ceiling, and Wall Components
 - 3) Apply Water for Maximum Effectiveness
 - 4) Expose and Extinguish Hidden Fires
 - 5) Area of Origin and Arson
 - 6) Extinguishment
- 5.3.14 Salvage
- (A) Requisite Knowledge
 - 1) Property Conservation
 - 2) Methods to Protect Property
 - 3) Flow of Water
 - 4) Main Control Valve
 - 5) Forcible Entry
 - (B) Requisite Skills
 - 1) Cluster Furniture
 - 2) Deploy Covering Materials
 - 3) Roll and Fold Salvage Covers
 - 4) Construct Water Chutes and Catch-alls
 - 5) Remove Water
 - 6) Cover Building Openings
 - 7) Charred Material
 - 8) Sprinklers
- 5.3.15 Water Supply
- (A) Requisite Knowledge
 - 1) Loading and Off-loading Procedures
 - 2) Fire Hydrant Operations
 - 3) Static Water Supply Sources
 - 4) Procedures and Protocol

- (B) Requisite Skills
 - 1) Lay a Supply Hose
 - 2) Connect and Place Hard Suction Hose
 - 3) Deploy Portable Water Tanks and Associated Equipment
 - 4) Hydrant-to-pumper Hose Connections
 - 5) Hydrants
- 5.3.16 Extinguishers
 - (A) Requisite Knowledge
 - 1) Classifications of Fire
 - 2) Rating Systems
 - 3) Risks Associated with Each Classification
 - 4) Portable Extinguishers.
 - (B) Requisite Skills
 - 1) Operate Portable Fire Extinguishers
 - 2) Approach Fire With Portable Fire Extinguishers
 - 3) Select Appropriate Extinguishers
 - 4) Safely Carry Portable Fire Extinguishers
- 5.3.17 Light Scene
 - (A) Requisite Knowledge
 - 1) Safety Principles and Practices
 - 2) Power Supply
 - 3) Loading and off-loading Procedures
 - (B) Requisite Skills
 - 1) Operate Power Supply and Lighting Equipment,
 - 2) Deploy Cords and Connectors
 - 3) Reset Ground-fault Interrupter (GFI) Devices
 - 4) Locate Lights for Best Effect
- 5.3.18 Scene Safety
 - (A) Requisite Knowledge
 - 1) Properties, Principles and Safety Concerns for Electric, Gas and Water Systems
 - 2) Utility Disconnect Methods
 - 3) Use of Required Safety Equipment
 - (B) Requisite Skills
 - 1) Identify Utility Control Devices
 - 2) Operate Control Valves or Switches
 - 3) Assess for Related Hazards

- 5.3.19 Ground Fire
 - (A) Requisite Knowledge
 - 1) Types of Ground Cover Fires
 - 2) Parts of Ground Cover Fires
 - 3) Methods to Contain or Suppress
 - 4) Safety Principles and Practices
 - (B) Requisite Skills
 - 1) Determine Exposure Threats Based on Fire Spread Potential
 - 2) Protect Exposures
 - 3) Construct a Fire Line or Extinguish With Hand Tools
 - 4) Maintain Integrity of Established Fire Lines
 - 5) Suppress Ground Cover Fires Using Water
- 5.4 Module 5.4 Rescue Operations - this duty shall involve **no** requirements for Fire Fighter I.
- 5.5 Module 5.5 Prevention, Preparedness, and Maintenance
 - 5.5.1 Clean/Check Equipment
 - (A) Requisite Knowledge
 - 1) Cleaning Methods for Various Tools and Equipment
 - 2) Correct use of Cleaning Solvents
 - 3) Manufacturer's or Departmental Guidelines for Cleaning Equipment and Tools
 - (B) Requisite Skills
 - 1) Select Correct Tools for Various Parts and Pieces of Equipment
 - 2) Follow Guidelines
 - 3) Complete Recording and Reporting Procedures
 - 5.5.2 Clean Hose
 - (A) Requisite Knowledge
 - 1) Departmental Procedures for Noting a Defective Hose and Removing it From Service
 - 2) Cleaning Methods
 - 3) Hose Rolls and Loads
 - (B) Requisite Skills
 - 1) Clean Different Types of Hoses
 - 2) Operate Hose Washing and Drying Equipment
 - 3) Mark Defective Hose
 - 4) Replace Coupling Gaskets
 - 5) Roll Hose
 - 6) Reload Hose

Fire Fighter I/Writing Panel Members

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