

Adopted

Career Technical Credit Transfer (CT²) Fire Fighter II 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.

CTFFII003 – Fire Fighter II

For qualification at Level II, the Fire Fighter II shall meet the general knowledge requirements, the general skill requirements, the Job Performance Requirements (JPRs) defined later in this document as well as the requirements listed in the CTFFII002 – Fire Fighter II.

General Knowledge Requirements: Responsibilities of the Fire Fighter II in assuming and transferring command within an incident management system, performing assigned duties in conformance with applicable NFPA and other safety regulations and Authority Having Jurisdiction (AHJ) procedures, and the role of a Fire Fighter II within the organization.

General Skills Requirements: The ability to determine the need for command, organize and coordinate an incident management system until command is transferred, and function within an assigned role in an incident management system.

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 to earn college or university credit: (1) Current and valid state of Ohio Fire Fighter I and II certifications or an Ohio Fire Fighter II certification and (2) completion of training courses offered by an Ohio public state-assisted career-technical institution (secondary or adult) or state supported college or university.

Credit Hours: *10 Semester/16 Quarter Hours of College Credit

*Unless previous credit earned for Fire Fighter I in which case the balance of 10 semesters or 16 quarter hours will be awarded (see Fire Fighter I CTAG for credit hour values).

Module 6.1	General
Module 6.2	Fire Department Communications
Module 6.3	Fireground Operations
Module 6.4	Rescue Operations
Module 6.5	Prevention, Preparedness, and 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 II 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 a valid Ohio Fire Fighter I and II or Ohio Fire Fighter II.

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 prove to the receiving institution that she/he holds current and valid State of Ohio Fire Fighter I and II certifications or a Fire Fighter II certification.
3. The applicant must provide prove to the receiving institution that she/he has completed Fire Fighter I and II or a Fire Fighter II training courses offered by a public state-assisted 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.

CTFFII003 – Fire Fighter II

Subject Codes - Ohio Board of Regents Subject Codes Valid at the Fire Fighter II Level

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

17.2801 (43.0203)	FIRE FIGHTER LEVEL I AND II	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 CONCERNED 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, SAFETY, FIRE ALARMS AND COMMUNICATIONS, FIRE BEHAVIOR, PORTABLE EXTINGUISHERS, PERSONAL PROTECTIVE EQUIPMENT, FORCIBLE ENTRY, VENTILATION, ROPES, LADDERS, FIRE HOSE, FIRE APPLIANCES, FIRE STREAMS, FIRE CONTROL, SALVAGE, OVERHAUL, EMERGENCY MEDICAL CARE, RESCUE, WATER SUPPLIES, SPRINKLERS, RESPONSE TO HAZARDOUS MATERIALS INCIDENTS, FIRE PREVENTION, PUBLIC EDUCATION, FIRE CAUSE TERMINATION, AND BUILDING CONSTRUCTION.
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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 topical outline and were taken from the Fire Fighter II 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.

Learning outcomes are based on Chapter 6 of the NFPA 1001 Standards (2008).

- 6.1 Module 6.1 General
 - 6.1.1 General Knowledge Requirements
 - 6.1.2 General Skill Requirements
- 6.2 Module 6.2 Communication
 - 6.2.1 Complete a Basic Incident Report (record accurate and complete information)
 - (A) Requisite Knowledge
 - 1) Purpose
 - 2) Usefulness
 - 3) Accuracy
 - 4) Consequences of Inaccuracy
 - 5) Obtaining Necessary Information
 - 6) Required Coding
 - (B) Requisite Skills
 - 1) Determine Necessary Codes
 - 2) Proof read Reports
 - 3) Operate Fire Department Computers
 - 4) Operate Other Necessary Equipment to Complete Reports
 - 6.2.2 Communicate the Need for Team Assistance (consistently inform supervisor so as to complete the assignment safely)
 - (A) Requisite Knowledge
 - 1) Use SOPs for Alarm Assignments
 - 2) Radio Communication Procedures
 - (B) Requisite Skills
 - 1) Operate Communications Equipment.
- 6.3 Module 6.3 Fireground Operations
 - 6.3.1 Ignitable Liquid Fire
 - (A) Requisite Knowledge
 - 1) Hazard Control – Foam

- 2) Foam Generation
 - 3) Poor Form Generation and Corrective Measures
 - 4) Characteristics, Uses and Limitations of Foam
 - 5) Advantages and Disadvantages of Fog and Foam Nozzles
 - 6) Application techniques
 - 7) Hazards
- (B) Requisite Skills
- 1) Prepare Foam Concentrate for Use
 - 2) Assemble Foam Stream Components
 - 3) Application
 - 4) Spills
- 6.3.2 Attack Line
- (A) Requisite Knowledge
- 1) Select Nozzle and Hose
 - 2) Selection of Adapters and Appliances
 - 3) Dangerous Building Conditions
 - 4) Building Collapse
 - 5) Effects of Fire Suppression and Fire Suppression Activity
 - 6) Search and Rescue and Ventilation
 - 7) Suppression Approaches
 - 8) Tools and Forcible Entry Needs
- (B) Requisite Skills
- 1) Assemble a Team
 - 2) Attack Techniques
 - 3) Evaluate and Forecast Fire Growth and Development
 - 4) Select Tools for Forcible Entry
 - 5) Procedure Use
 - 6) Hazardous Building or Fire Conditions
- 6.3.3 Flammable Gas Cylinder Fire
- (A) Requisite Knowledge
- 1) Pressurized Flammable Gases
 - 2) Elements of a Gas Cylinder
 - 3) Heat and Pressure Effects on Closed Cylinders
 - 4) Boiling Liquid Expanding Vapor Explosion
 - 5) Safe Havens
 - 6) Water Streams
 - 7) Valve Types

- (B) Requisite Skills
 - 1) Execute Effective Advances and Retreats
 - 2) Water Application
 - 3) Cylinders
 - 4) Control Valves
 - 5) Procedure Use
- 6.3.4 Protect Evidence of Fire Cause and Origin
 - (A) Requisite Knowledge
 - 1. Assess Origin and Cause
 - 2. Types of Evidence
 - 3. Protecting Evidence
 - 4. Role and Relationships of Fire Fighter II
 - 5. Criminal Investigators
 - 6. Problems With Removing Property or Evidence
 - (B) Requisite Skills
 - 1) Locate the Fire's Origin Area
 - 2) Recognize Possible Causes
 - 3) Protect Evidence
- 6.4 Module 6.4 Rescue Operations
 - 6.4.1 Vehicle Accidents
 - (A) Requisite Knowledge
 - 1) Roles and Responsibilities at an Accident Scene
 - 2) Auto Body Construction
 - 3) Vehicle Components and Systems
 - 4) Hand and Power Extrication Equipment
 - 5) Safety Procedures
 - (B) Requisite Skills
 - 1) Operate Hand and Power Tools
 - 2) Use Cribbing and Shoring Materials
 - 3) Moving and Removing Vehicle Components
 - 6.4.2 Rescue Operations
 - (A) Requisite Knowledge
 - 1) Roles and Responsibilities in a Technical Rescue Operation
 - 2) Hazards With Technical Rescue Operations
 - 3) Rescue Tools
 - 4) Rescue Practices and Goals

- (B) Requisite Skills
 - 1) Identify and Retrieve Rescue Tools
 - 2) Establish Public Barriers
 - 3) Team Assignments
- 6.5 Module 6.5 Prevention, Preparedness, and Maintenance
 - 6.5.1 Safety Survey
 - (A) Requisite Knowledge
 - 1) Policies and Procedures
 - 2) Common Cause and Fire Prevention
 - 3) Safety Surveys and Public Education Programs
 - 4) Public Relations
 - 5) Referral Procedures
 - (B) Requisite Skills
 - 1) Complete Forms
 - 2) Recognize Hazards
 - 3) Match Findings to Preapproved Recommendations
 - 4) Communicate Findings
 - 6.5.2 Presentations
 - (A) Requisite Knowledge
 - 1) Use of Informational Materials
 - 2) Presentation Skills
 - 3) Station Tours – Operating Procedures
 - (B) Requisite Skills
 - 1) Document Presentations
 - 2) Utilize Prepared Materials
 - 6.5.3 Pre-incident Survey
 - (A) Requisite Knowledge
 - 1) Sources of Water Supply
 - 2) Symbols Used in Diagramming Construction Feature
 - 3) Fundamentals of Fire Suppression and Detection
 - 4) Pre-incident Survey and Form Completion
 - 5) Accurate Diagrams
 - (B) Requisite Skills
 - 1) Identify Components of Fire Detection and Suppression
 - 2) Sketch
 - 3) Hazards and Special Considerations
 - 4) Documentation

- 6.5.4 Maintenance
 - (A) Requisite Knowledge
 - 1) Cleaning Methods
 - 2) Cleaning Solvents
 - 3) Manufacturer and Departmental Guidelines
 - 4) Problem Reporting Process
 - (B) Requisite Skills
 - 1) Select Tools
 - 2) Follow Guidelines
 - 3) Recording and Reporting Procedures
 - 4) Operate Equipment
- 6.5.5 Service Test
 - (A) Requisite Knowledge
 - 1) Procedure Use
 - 2) Hose Service Testing
 - 3) Recording Procedures
 - (B) Requisite Skills
 - 1) Operate Hose Testing Equipment and Nozzles
 - 2) Record Results

Fire Fighter II/Writing Panel Members

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