

# El Paso Community College

## Syllabus

### Part II

## Official Course Description

<b>SUBJECT AREA</b>	<u><b>Fire Technology</b></u>
<b>COURSE RUBRIC AND NUMBER</b>	<u><b>FIRS 1407</b></u>
<b>COURSE TITLE</b>	<u><b>Firefighter Certification II</b></u>
<b>COURSE CREDIT HOURS</b>	<u><b>4    3    :    4</b></u> <b>Credits   Lec   Lab</b>

### I. Catalog Description

Provides one in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. Student must participate in a Fire Technology Academy orientation; pass an agility exam, and see the Fire Technology counselor at the Valle Verde campus before enrolling in FIRS courses. **Prerequisites: READ 0308 (can be taken concurrently) or by placement exam and FIRS 1103 and FIRT 1301 and FIRT 1319. Corequisites: FIRS 1401 and FIRS 1413 and FIRS 1419 and FIRS 1433. \*\*\*THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED AS A TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION. \*\*\* (3:4).**

### II. Course Objectives

#### A. Section 103, Portable Fire Extinguishers (8 Hours)

- 1.00 Describe the purpose of the NFPA standard applicable to portable fire extinguishers.
- 2.00 Identify the classification of types of fires as they relate to the use of portable fire extinguishers and the materials involved in each class of fire.
- 3.00 Define and describe the Underwriter's Laboratories Inc. portable fire extinguisher rating system.
- 4.00 Identify the appropriate fire extinguisher for each class of fire.
- 5.00 Identify the extinguishing effects needed for each class of fire.
- 6.00 Identify an extinguishing effect appropriate for Class "A" fires.
- 7.00 Identify and describe fire extinguisher characteristics and operations.
- 8.00 Describe and demonstrate the operation of fire extinguishers.

#### B. Section, Fire Service Ground Ladders (32 Hours)

- 1.00 Describe the purpose of the NFPA standards applicable to fire service ladders.
- 2.00 Identify and describe ladders, describe their use, and define the terms associated with ladders.
- 3.00 Identify and describe the materials used in ladder construction and their features.
- 4.00 Identify, describe, and demonstrate the techniques of cleaning ladders.
- 5.00 Identify, describe, and demonstrate inspection and maintenance procedures for different types of ground ladders.
- 6.00 Identify and describe the procedures for conducting an annual service test on ground ladders.
- 7.00 Identify the load capacities for ground ladders, according to NFPA 1931.
- 8.00 Identify and select a ladder for a given task.
- 9.00 Operating as an individual or as a member of a team, shall describe and demonstrate properly picking-up, carrying, and lowering a ladder.

- 10.00 Operating as an individual or member of a team, shall describe and demonstrate raising and positioning ground ladders.
- 11.00 Climb the full length of each type of ground ladder.
- 12.00 Describe and demonstrate proper ladder climbing techniques while transporting tools and equipment or assisting a person with a simulated injury.
- 13.00 Describe and demonstrate the techniques of working from ground ladders with tools and equipment.

**C. Section 106 Fire Service Hose (24 Hours)**

- 1.00 Describe the purpose of the NFPA standards applicable to fire service hose.
- 2.00 Identify and describe the use and construction of fire hose and couplings.
- 3.00 Describe and demonstrate the procedures for care, maintenance and inspection of fire hose and couplings.
- 4.00 Describe and demonstrate the use of nozzles, valves, appliances, adapters and tools.
- 5.00 Describe and demonstrate the general care and maintenance of appliances.
- 6.00 Describe and demonstrate coupling and uncoupling fire hose connections.
- 7.00 Identify, describe, and demonstrate the proper methods of rolling hose.
- 8.00 Describe and demonstrate hose carries and drags.
- 9.00 Describe and demonstrate the proper techniques for operating hose lines.
- 10.00 Identify, describe, and demonstrate basic hose loads on fire apparatus.
- 11.00 Identify, describe, and demonstrate attack hose loads and finishes.
- 12.00 Describe and demonstrate extending a section of hose and replacing burst sections of hose.

**D. Section 108, Fire Service Overhaul (4 Hours)**

- 1.00 Identify and describe the safety precautions necessary during overhaul.
- 2.00 Identify and describe the value of proper overhaul.
- 3.00 Identify and describe the procedures to follow during overhaul.
- 4.00 Demonstrate and describe safe methods for handling debris.
- 5.00 Identify techniques of searching for hidden fires.
- 6.00 Define and describe the duties of fire fighters left at the scene for fire and security surveillance, and identify the proper procedures for restoration of the premises after a fire.

**E. Section 109, Fire Streams (8 Hours)**

- 1.00 Identify, define, and demonstrate characteristics of fire streams.
- 2.00 Identify terms relating to the principles of fire service hydraulics.
- 3.00 Identify various types of nozzles and their components.
- 4.00 Describe and demonstrate the operation of various types of fire service nozzles.

**F. Section 113, Water Supplies (8 Hours)**

- 1.00 Describe the operation of fire hydrants, fully open and close fire hydrants, and identify the NFPA hydrant color code.
- 2.00 Identify alternative water sources available in typical communities.
- 3.00 Describe the apparatus, equipment, and appliances required to provide water at rural locations by relay pumping or water shuttle.
- 4.00 Assemble and connect the equipment necessary for drafting from a water supply source.
- 5.00 Describe the assembling of equipment necessary for the transfer of water between portable water tanks.
- 6.00 Describe the deployment of a portable water tank.
- 7.00 Describe the loading and offloading of tanks on mobile water supply apparatus.
- 8.00 Describe and demonstrate a hydrant-to-pumper hose supply connection for forward and reverse hose lays.

**III. THECB Learning Outcomes (WECM)**

Demonstrate competencies, for subjects taught, set forth in the TCFP curriculum for Basic Fire Suppression.

#### IV. Evaluation

**Attendance Policy:** Students absent for two more class periods without a valid excuse as determined by the instructor may be dropped from the course. Any exam or assignment not completed as a result of an unexcused absence will receive a grade of "0" for that exam or assignment.

Students who do not attend class before or on the census date listed in the Credit Course Schedule and the Course Calendar and have not contacted the instructor with a valid excuse will be dropped from the course.

**Tardiness Policy:** Students must be seated and ready to begin class at the scheduled time. Students tardy for two or more class periods without a valid excuse as determined by the instructor may be dropped from the course.

Expect class to last the entire scheduled time. Students may not leave class early without a valid excuse or without having made arrangements with the instructor. Students doing so will be considered absent for that class period.

**Withdrawal Policy:** Students who desire to withdraw are responsible for initiating withdrawal action through the EPCC Registrar's Office according to the policy in the Credit Class Schedule. **After the drop date listed in the Credit Class Schedule and the Course Calendar, students will receive a grade based upon all required items. Items not completed will be given a grade of "0".**

Students requesting an Incomplete, "I", must comply with EPCC policies and procedures listed in the Credit Class Schedule.

**Cheating Policy:** Students determined to be cheating on an exam or plagiarizing another student's assignment will be given a grade of "0" for that exam or assignment. An incident report documenting the circumstances will be prepared by the Instructor and submitted to the Instructional Coordinator of Fire Technology and then forwarded to the Instructional Dean Occupational Education. A copy of the report will be provided to the student. A second such incident will be grounds for dismissal of the student from the course with a grade of "F".

#### Grading Scale

A: 90-100  
B: 80-89  
C: 75-79  
D: 70-74  
F: 0-69

#### V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

#### VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.