

Lassen Community College Course Outline

FS 97B: Fire Control 3: Structural Firefighting – (Live Fire)

1 unit

I. Catalog Description

This course provides fundamental knowledge and skills that prepare a firefighter to locate, control, and extinguish an interior structure fires. Students examine subjects such as fire behavior, ventilation techniques/flow path management, interior fire attack, and exterior/transitional fire attack using a live-fire simulator, fire dynamics, safety, and Tactical Fire Ground Considerations. Material fee required and subject to change. A supplemental \$81.00 fee will be charged including a \$5.00 materials fee and a \$76.00 State Fire Training FSTEP certification fee is due to Lassen Community College and will be collected at the time of registration. Full Structural PPE is required including SCBA's (can be provided by the college if needed). Course may be repeated as needed for recertification. To participate in this course, students need: Verification of meeting prerequisite requirements*, Current fit test documentation, Cal/OSHA compliant structural personal protective equipment (PPE) and self contained breathing apparatus (SCBA), and Completed release of liability form. Instructor approval is required for the course.

* In accordance with NFPA 1403 (2018) paragraph 4.3.3, participants who received their training from an organization or entity other than the authority having jurisdiction (AHJ) hosting the course must present written verification of having successfully completed the minimum training requirements.

Diversity Statement

Our commitment to diversity requires that we strive to eliminate barriers to equity and that we act deliberately to create a safe and inclusive environment where individual and group differences are valued and leveraged for the growth and understanding as an educational community.

Recommended Preparation: Successful completion of ENGL 105 or equivalent multiple measures placement.

Pre-Requisite(s):-SFT Firefighter 1 training to meet the minimum job performance requirements for Fire Fighter 1 in NFPA 1001: Standard for Fire Fighter Professional Qualifications related to safety; fire behavior; portable extinguishers; personal protective equipment (PPE); ladders; fire hose, appliances, and streams; overhaul; water supply; ventilation; forcible entry; and building construction (NFPA 1403 (2018))

or 2 years' experience as a volunteer firefighter.

OR

SFT Fire Fighter 1 certification

Additional Course Information

Transfer Status: NT

Total Number of Hours by Instructional Method: 14 Hours Lecture, 10 Hours Lab, 28 Hours Outside Study, 52 Total Hours of Instruction

Scheduled: Summer/Spring (even)

II. Coding Information

Repeatability: Not repeatable
Grading Option: Graded
Credit Type: Credit - Degree Applicable
TOP Code: 213300

III. Course Objectives

A. Course Student Learning Outcomes

Upon completion of this course, the student will be able to:

1. Understand how to extinguish a fire by managing hose, assessing risk at entry point of fire, applying water using different techniques until extinguishment is achieved
2. Describe how different construction techniques, materials, furnishings, and interiors impact fire behavior
3. Describe how horizontal and vertical ventilation impact fire growth
4. Understand how to preserve evidence for a fire investigation, confirm fire extinguishment and implement overhaul.

B. Course Objectives

Upon completion of this course, the student will be able to:

1. Understand how to extinguish a fire by managing hose, assessing risk at entry point of fire, applying water using different techniques until extinguishment is achieved
2. Describe how different construction techniques, materials, furnishings, and interiors impact fire behavior
3. Describe how horizontal and vertical ventilation impact fire growth
4. Understand how to preserve evidence for a fire investigation, confirm fire extinguishment and implement overhaul.

IV. Course Content

A. Introduction

1. Overview
2. Participation requirements
3. Reducing Health-related Injury and illness

B. Fire Dynamics

1. Fire Chemistry and Physics
2. Fire Growth and Development
3. Characteristics of Smoke
4. Water As an Extinguishing Agent

C. Tactical Fire Ground Considerations

1. Fire Ground Command and Control
2. Size Up
3. Locate the Fire
4. Identify Flow Paths and Manage Air Tracks
5. Cool From a Safe Location
6. Extinguish the Fire
7. Perform Rescue and Salvage Operations (Actions of Opportunity)

D. Additional Tactical Fire Ground Considerations

1. Additional Considerations

E. Health and Safety

1. Decontamination and equipment maintenance
2. Reporting exposure, injury, and damaged equipment

Application

1. Skills Exercise: Combustion
2. Skills Exercise: Risk Assessment and Door Entry
3. Skills Exercise: Stretching, Flaking and Advancing an Attack Line
4. Skills Exercise: Water Application
5. Skills Exercise: Fire Attack
6. Skills Exercise: Transitional Fire Attack
7. Skills Exercise: Interior (Attic) Fire Attack
8. Skills Exercise: Below Grade (Basement) Fire Attack
9. Skills Exercise: VEIS (Vent, Enter, Isolate, Search)
10. Skills Exercise: Ventilation
11. Skills Exercise: Portable Water Extinguisher Attack

V. Assignments

- A. Appropriate Readings:
 1. Handouts provided to students by instructor
- B. Writing Assignments
 1. Sign off on skills task books
- C. Expected Outside Assignments
 1. Properly Don Personal Protective Equipment. Students will be required to complete two hours of outside-of-class homework for each hour of lecture.
- D. Specific Assignments that Demonstrate Critical Thinking
 1. Examine and analyze considerations that go into “go/ no go” decisions regarding attack of a fire.

VI. Methods of Evaluation

Traditional Evaluation

Classroom discussion, activities, participation, and Skills Testing

VII. Methods of Delivery

Check those delivery methods for which, this course has been separately approved by the Curriculum/Academic Standards Committee.

Traditional Classroom Delivery Correspondence Delivery

Hybrid Delivery Online Delivery

Traditional Classroom Delivery

Lecture, discussion, and final exam.

VIII. Representative Texts and Supplies

1. Handout Provided by instructor.
2. Students must bring SCBA, bottle, full structure gear and proof of passing a fit test in the last year.

IX. Course Status

1. Current Status: Approved/Active
2. Original Approval Date:05/07/24
3. Course Originator: Dan Weaver
4. Board Approval Date:06/11/2024

5. Chancellor's Office Approval Date:06/13/2024
6. Revised By:
7. Curriculum/Academic Standards Committee Revision Date: