

# Lassen Community College Course Outline

## FS 80 Firefighter Survival

0.5 Unit

### I. Catalog Description

This hands-on course provides the knowledge and skills needed to minimize errors on the fire ground and reduce fire fighter injuries and fatalities including calling Mayday; SCBA and air management; and navigation, disentanglement, wall breach, anchoring, window hang, ladder escape, and above and below grade survival techniques. Material fee required and subject to change. A supplemental \$76.00 State Fire Training FSTEP certification fee is due to Lassen Community College and will be collected at the time of registration. Student will be expected to use and maintain SCBA and mask for use provided during class. Full Structural PPE can be provided by the college if needed but students are encouraged to bring their own if possible.

#### 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.

**Prerequisites:** Fire Ground Survival Awareness (IAFF – online / Must be completed within 90 days of SFT course start date.)

#### Additional Course Information

Transfer Status: NT

Total Number of Hours by Instructional Method: 6.3 Hours Lecture, 10.7 Lab, 12.60

Outside Work, 29.60 Total Student Learning Hours.

Scheduled: Fall, Spring

### II. Coding Information

Repeatability: Not Repeatable

Grading Option: Graded

Credit Type: Credit - Degree Applicable/Credit

TOP Code: 213300

### III. Course Objectives

#### A. Course Student Learning Outcomes

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

1. Demonstrate an understanding of fire fighter survival terminology, survival attitude, increased situational awareness.
2. Demonstrate Self-Contained Breathing Apparatus (SCBA) knowledge and techniques for air awareness and SCBA air emergencies, and applying them during hands-on evolutions.

#### B. Course Objectives

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

1. Demonstrate Firefighter survival terminology
2. Demonstrate use of the federal government involvement to reduce firefighter injuries and fatalities and the guidelines and laws put in place from tragic fire loss events.
3. Review Firefighter fatality case study recommendations to enhance firefighter training to handle their own emergencies on the fire ground.
4. Explain techniques for developing firefighter survival attitude and identify personal equipment that fire fighters should carry in their possession for self-preparedness measures.
5. Apply situational awareness to prevent the fire fighter emergency and recognize critical structural fire ground factors.
6. Demonstrate Self-Contained Breathing Apparatus (SCBA) knowledge and techniques for air awareness and SCBA air emergencies, and applying them during hands-on evolutions.

#### IV. Course Content

- A. Orientation and Administration
- B. Course Safety Requirements
- C. **Mayday Mindset**
  1. **Identifying Common Causes of Mayday Situations.**
  2. **Understanding Physiological Responses to Stress.**
  3. **Calling Mayday**
- D. **SCBA and Air Management**
  1. **Mitigating SCBA Problems**
  2. **Changing SCBA Profiles**
  3. **Air Management techniques**
- E. **Navigation and Disentanglement**
  1. Navigation Techniques
  2. Disentanglement Techniques
- F. Wall Breach and Anchoring
  1. Wall Breach Techniques
  2. Anchoring and Bailout Techniques
- G. Window Hang and Ladder Escape
  1. Window Hang Techniques
  2. Hook two/slide to four Ladder Escape Technique
  3. Head-First ladder Escape Technique
- H. Above and Below Ground Survival
  1. Above and below ground Survival Techniques
- I. Mayday Cade studies
- J. Formative Assessments

#### Evolutions:

- Drill Ground Activity 1: Call Mayday
- Drill Ground Activity 2: Troubleshoot SCBA Problems
  
- Drill Ground Activity 3: Partially Remove SCBA
- Drill Ground Activity 4: Fully Remove SCBA
- Drill Ground Activity 5: Convert SCBA for Rescue
- Drill Ground Activity 6: Air Management
- Drill Ground Activity 7: Use SBCA in a Rescue Environment
- Drill Ground Activity 8: Navigation
- Drill Ground Activity 9: Disentanglement
- Drill Ground Activity 10: Wall Breach – Backwards Swim

- Drill Ground Activity 11: Wall Breach – Head First
- Drill Ground Activity 12: Anchor and Bail Out
- Drill Ground Activity 13: Window Hang
- Drill Ground Activity 14: Ladder Escape – Hook Two / Slide to Four
- Drill Ground Activity 15: Ladder Escape – Head First

## V. Assignments

### A. Appropriate Readings

Building Construction for the Fire Service, Francis L. Brannigan and Glenn P. Corbet ρ Collapse of Burning Buildings, Vincent Dunn, 1988 ρ Firefighter Fatalities in the United States, U.S. Fire Administration, September 2009 ρ <http://www.firefighterclosecalls.com/> ρ ICS 910: Firefighter Incident Safety and Accountability Guidelines, FIRESCOPE, July 2008 ρ NFPA 101: Life Safety Code, 2009 Edition ρ NFPA 1404: Standard For Fire Service Respiratory Protection, 2006 Edition ρ NFPA 1500: Standard On Fire Department Occupational Safety And Health Program, 2007 Edition ρ NFPA 1584: Standard On The Rehabilitation Process For Members During Emergency Operations And Training Exercises, 2008 Edition ρ NFPA 1670: Standard On Operations And Training For Technical Search And Rescue Incidents, 2009 Edition ρ NFPA 1710: Standard For The Organization And Deployment Of Fire Suppression Operations, Emergency Medical Operations, And Special Operations To The Public By Career Fire Departments, 2010 Edition ρ NFPA 1852: Standard On Selection, Care, And Maintenance Of Open-Circuit Self Contained Breathing Apparatus (SCBA), 2008 Edition ρ NFPA 1971: Standard On Protective Ensembles For Structural Fire Fighting And Proximity Fire Fighting, 2007 Edition ρ NFPA 1981: Standard On Open-Circuit Self-Contained Breathing Apparatus (SCBA) For Emergency Services, 2007 Edition ρ NFPA 1982: Standard On Personal Alert Safety Systems (Pass), 2007 Edition ρ NFPA 1983, Standard On Life Safety Rope And Equipment For Emergency Services, 2006 Edition ρ NIOSH #20000349: Commercial Structure Fire Claims The Life Of One Fire Fighter – California <http://www.cdc.gov/niosh/fire/reports/face9807.html> ρ NIOSH #20022921: Supermarket Fire Claims The Life Of One Career Fire Fighter And Critically Injures Another Career Fire Fighter – Arizona <http://www.cdc.gov/niosh/fire/reports/face200113.html> ρ NIOSH #20029424: Career Captain Dies After Running Out Of Air At A Residential Structure Fire – Michigan <http://www.cdc.gov/niosh/fire/reports/face200505.html> ρ NIOSH #20032896: Volunteer Fire Fighter Dies After Falling Through Floor Supported By Engineered Wooden-I Beams At Residential Structure Fire – Tennessee <http://www.cdc.gov/niosh/fire/reports/face200707.htm>

### B. Writing Assignments

Written essay on how to avoid fire entrapment

### C. Expected Outside Assignments

Student will practice maintenance of SCBA 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

Examine critique and revise critical responsibilities relevant to past fire entrapments.

## VI. Methods of Evaluation

### **Traditional Evaluation**

Term paper (topic choice, thesis statement, outline, bibliography, rough draft, final draft), homework, classroom discussion, essay, journals, lab demonstrations and activities, multiple choice quizzes, and participation. Final exam and other assignments

## **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, audio/visual aids, demonstration, group exercises, guest speakers, lab, individualized programs and other as needed.

## **VIII. Representative Texts and Supplies**

IAFF. *Fire Ground Survival Student Manual*. Free Online at: <https://www.iaff.org/fire-ground-survival/>

## **IX. Course Status**

Current Status: Active

Original Approval Date: 12/06/2016

Board Approval Date: 12/13/2016

Chancellor's Office Approval Date: 01/24/2017

Revised By: Dan Weaver

Curriculum/Academic Standards Committee Revision Date: 09/17/2024