

## Lassen Community College Course Outline

### FS-60B Fire Crew Firefighter (Cal Fire Seasonal)

2.0 Units

#### I. Catalog Description

This course is designed for entry-level fire crew firefighters and provides students with the basic knowledge and skills to perform entry-level Fire Crew Firefighter tasks. Topics include: Wildland Response, Wildland Personal Protective Equipment, Wildland Fire Behavior, Wildland Safety, Wildland Tools and Equipment, Wildland Fire Suppression, an introduction to the Incident Command System (ICS), Emergency Medical Services (EMS) skills, Radio Use, Hazardous Materials and Human Factors. The course comprises the minimum training requirements for the California Department of Forestry and Fire Protection (CAL FIRE). The curriculum is based on policy within the CAL FIRE 4000 Training Handbook, CAL FIRE Department Lesson Plans, 2016 edition of NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications, and NWCG S-130 Course Objectives. Successful students receive NWCG S-190, L-180 and State Fire Training Haz Mat First Responder Awareness certifications upon class completion.

**Recommended Preparation:** Successful completion of ENGL105 or equivalent assessment placement.

Does Not Transfer to CSU/UC

32 Hours Lecture; 48 Hours Lab, Expected outside of class hours 64, Total student learning hours 144

Scheduled: upon agency request for Summer, Fall, Spring

#### II. Coding Information

Repeatability: Not repeatable

Open Entry/Open Exit: NA

Grading Option: Pass/No Pass

TOP Code: 213310

#### III. Course Objectives

##### A. Course Student Learning Outcomes

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

1. Describe policies and standard operating procedures and rules and regulations as they apply to a Cal Fire firefighter
2. Describe the functions of CAL FIRE, the Crew Program, and the organization and duties of a CAL FIRE crew
3. Construct a fire line using proper tools.
4. Demonstrate emergency procedures that may be needed in critical fire situations.
5. Deploy a fire shelter in an emergency situation.

##### B. Course Objectives:

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

1. Demonstrate knowledge of emergency response preparation, fire crew organization and fire ground operations
2. Demonstrate how to couple, roll, drain, and carry hose
3. Describe the factors that may indicate the potential for increased fire behavior that

- may compromise safety.
4. Demonstrate knowledge of the standard cautionary guidelines, avoiding fire entrapment and escape methods including fire shelter deployment and the use of personal protective equipment.
  5. Demonstrate knowledge of hazards that might be encountered on the fire line and how they might be avoided.
  6. Demonstrate knowledge of and ability to use and maintain hand tools and equipment used to construct hand line.

## **IV. Course Content**

### **A. Introduction**

- a. Orientation & General Knowledge
- b. Fire Crew Organization

### **B. Safety**

- a. Common accidents or injuries and their causes in firefighting
- b. Importance of physical fitness in firefighting
- c. NFPA 1500 Standard on Fire Department Occupational Safety and Health Program
- d. Hydration and health related illnesses
- e. Fire and safety initiatives and reeducation of line-of duty injuries and fatalities

### **C. Wildland Fire Suppression**

- a. Wildland Response
  1. Emergency Call Preparedness and Response
  2. Fire Crew Incident Base Orientation
- b. Wildland Fire Behavior
  1. S-190 Introduction to Wildland Fire Behavior, NWCG
- c. Wildland Personal Protective Equipment
  1. Personal Protective Equipment – Wildland
  2. How to Don Wildland Personal Protective Equipment
  3. New Generation Fire Shelter
  4. How to Deploy a New Generation Fire Shelter, Standing Drop-Down Method
  5. How to Deploy Fire Shelters in a Group
  6. How to Deploy a New Generation Fire Shelter, Lying Down Method
- d. Wildland Tools and Equipment
  1. Wildland Hand Tools
  2. Brush hook
  3. Pulaski
  4. Axes; Double Bit, Single Bit and Pick Head
  5. Shovels, Round Point, Square Point and Scoop
  6. McLeod
  7. Wire Broom
  8. Rhino Tool
  9. Combi Tool
  10. Canteen and Hydration Systems for Fire Crews
  11. Headlamps
  12. Fusees as a Firing Tool
  13. Drip Torch
  14. How to Use a Drip Torch
  15. How to Use Back Pump

16. Wildland Tool Maintenance
    1. Specialized tools
    2. Camp specific tools
  - e. Basic Chainsaw Safety Awareness
  - f. Wildland Fire Safety
    1. The 10 “Standard Fire Orders”
    2. Lookouts, Communications, Escape Routes, and Safety Zones (LCES)
    3. The 18 Situations That Shout “Watch Out”
    4. Common Denominators of Fire Fatalities
    5. Fireline Hazards
    6. Avoiding Fire Entrapment
    7. How to Assume the Safety Position for an Airtanker Retardant Drop
    8. How to Approach and Enter a Helicopter
    9. Bulldozer Operations
    10. What to Do if Lost
    11. Hydration
  - g. Wildland Suppression
    1. 4320.8 Wildland Fire Strategy
    2. Handline Construction
    3. Introduction to Wildland Urban Interface
  - h. Hose and Water Use on Fires
    1. Use of Water on Wildland Fires
    2. How to Couple Hose, Over the Hip Method, One Person
    3. How to Make a Single Doughnut Roll – Two Person Method
    4. How to Make a Twin Doughnut Hose Roll – Two Person Method
    5. How to Make an Out of Service Hose Roll – One Person Method
    6. How to Make a Progressive Hose Lay (Fire Crew)
    7. How to Pick Up and Drain Hose – Horseshoe Carry Method
    8. How to Pickup & Drain Wildland Hose Butterfly Carrying Method - One Person
  - i. Mop Up and Patrol Operations
  - j. Tooling up a Hand Crew
    1. How to Tool Up a Hand Crew
    2. Fire Crew Vehicle and Tool Up Procedures
    3. Fire Crew Physical Assessment
- D. Additional Required Training
- a. Human Factors on the Fireline
  - b. Fire Crew First Aid
  - c. Radio Use
  - d. Hazardous Materials Recognition
  - e. Wildland Response
    1. Fire Apparatus Identification
    2. ICS Orientation (Web based, self-paced) I-100

## **V. Assignments**

### **A. Appropriate Readings**

Assigned handout material

### **B. Writing Assignments**

Written quizzes, exams, and scenario exercises

### **C. Expected Outside Assignments**

Assigned reading and exam preparation

**D. Specific Assignments that Demonstrate Critical Thinking**

Demonstration of various hose lays for wildland and structure fires for a given service.

**VI. Methods of Evaluation**

**Traditional Evaluation**

Written Examinations and Performance Exams

**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**

S-190, Introduction to Wildland Fire Behavior, Student Manual, NWCG

All materials will be provided by the instructor.

- Incident Response Pocket Guide NWCG, 2022 PMS-461

**IX. Discipline/s Assignment**

Fire Technology

**X. Course Status**

Current Status: Active

Original Approval Date: 01/18/2022

Board Approval Date: 02/08/2022

Revised By:

Curriculum/Academic Standards Committee Revision Date: 10/04/2022