

Las Positas College  
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### Course Outline for FST 86

### WILDLAND FIREFIGHTER 1 - BASIC

Effective: Spring 2017

#### I. CATALOG DESCRIPTION:

FST 86 — WILDLAND FIREFIGHTER 1 - BASIC — 4.00 units

Provides a basic wildland firefighter course oriented towards entry level employment opportunities within agencies responsible for Wildland Fire Mitigation and Interface I-Zone Protection. Fundamentals of wildand fire control and techniques of controlling other emergency incidents are covered with a strong safety perspective. Factors affecting wildand fire behavior, weather and prevention, with an emphasis on organization and equipment usage. Provides S130, S131 and S190 equivalency under National Wildfire Coordinating Group (NWCG) and meets Cal Fire 67 Hour Wildland Firefighter 1 Basic certification requirements.

2.50 Units Lecture 1.50 Units Lab

#### Prerequisite

FST 50 - Fire Protection Organization  
with a minimum grade of C

#### Grading Methods:

Letter Grade

#### Discipline:

	<b>MIN</b>
<b>Lecture Hours:</b>	45.00
<b>Lab Hours:</b>	81.00
<b>Total Hours:</b>	126.00

#### II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

#### III. PREREQUISITE AND/OR ADVISORY SKILLS:

**Before entering the course a student should be able to:**

A. FST50

#### IV. MEASURABLE OBJECTIVES:

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

- A. Define wildland terminology;
- B. Demonstrate wildland firefighter safety;
- C. Demonstrate firefighter preparedness;
- D. Utilize wildland tools and equipment;
- E. Describe wild land fire behavior;
- F. Understand basic ICS terminology and functions;
- G. Utilize proper wildand PPE;
- H. Demonstrate wild fire suppression techniques;
- I. Demonstrate proper shelter deployment;
- J. Describe different suppression strategies;
- K. Describe state and federal wildland fire resources;
- L. Describe state mutual aid system;
- M. Define basic ICS terminology, structure and facilities.

#### V. CONTENT:

- A. Wildland fire protection organization in California
  - 1. Wildland values and functions
  - 2. Organization for wildland protection
  - 3. Fire terminology
  - 4. The fire problem in California
    - a. Recent incident studies
  - 5. State and Federal agencies
  - 6. Local, state and federal mutual aid
- B. Functions of the protection organization

1. The fire prevention problem
2. The fire prevention planning
3. Pre-suppression planning
- C. Suppression organization and methods
  1. Detection
  2. Equipment and facilities
    - a. Types apparatus and capabilities
    - b. Federal and California classifications
    - c. Air operations, types of aircraft and facilities
    - d. Hand and power tools
    - e. Heavy equipment
    - f. Communication
    - g. Records
    - h. Backfiring equipment
    - i. Types of resources by ICS classifications
    - j. Base Camp
    - k. Camps
    - l. Staging Areas
- D. Fire behavior
  1. Specialized resources
    - a. Dozes
    - b. Tenders
    - c. Communication/Command, etc.
  2. Chemistry
  3. Fuel
  4. Weather
  5. Topography
- E. Extinguishing agents and applications methods
  1. Water
  2. Foam
  3. Gels
  4. Chemicals
  5. Dirt
- F. Strategy
  1. Response
  2. Size-up
  3. Rescue
  4. Exposure
  5. Cutting line
  6. Attack methods
  7. Confine
  8. Extinguishment
  9. Firing operations
  10. Mop-up (overhaul)
  11. Patrol
- G. Fire organization
  1. Planning
  2. Fire line
  3. Support
- H. Fire safety
  1. Line organization
  2. Personal needs
  3. Medical concerns
  4. Hydration
  5. Snake bites and stings
  6. Burns
  7. Strains, Sprains
  8. Heat exhaustion, heat stroke
  9. Communication
  10. LACES
  11. Watchouts
  12. Standard Fire Orders
- I. Personal protective equipment
- J. Fire shelters / shelter deployment
- K. Maps
  1. Map reading
  2. GPS
  3. Compass utilization
- L. Urban interface hazards
  1. Triage of structures
  2. Structure protection guidelines
- M. Safety
- N. Tools and equipment maintenance

## VI. METHODS OF INSTRUCTION:

- A. **Lecture** -
- B. Oral and written reports
- C. Practical field applications
- D. Group discussion
- E. Performance examinations
- F. Simulated problem solving
- G. Reading assignments
- H. Manipulative drills
- I. Controlled live fire exercises
- J. Audio-visual aids

## VII. TYPICAL ASSIGNMENTS:

- A. Students will be able to develop wildland interface scenario through oral evaluation during lab assignments and describe

the procedures towards conducting size up, containment, extinguishment and overhaul. B. Students will be able to demonstrate in field exercises the proper use of tools and equipment. C. Students will demonstrate proper use of Safety Equipment under various exercises, identifying escape routes, safety zones and demonstrating proper shelter deployment techniques. D. Students will demonstrate proper extinguishment methods using available means and equipment under controlled live fire applications. E. Reading assignments of course text and review of course handouts and classroom notes.

#### VIII. EVALUATION:

##### A. **Methods**

1. Exams/Tests
2. Quizzes
3. Papers
4. Oral Presentation
5. Class Performance
6. Other:
  - a. Methods
    1. Final State exam
    2. Written and oral quizzes
    3. Term notebook
    4. Satisfactory completion of assignments
    5. Satisfactory completion of manipulative performance standards

##### B. **Frequency**

1. Frequency
  - a. Weekly quizzes
  - b. Oral quizzes during lab exercises

#### IX. TYPICAL TEXTS:

1. Perry *Wildland Fire Fighting for Structural Firefighters*. 4th ed., IFFTA Fire Publication, 2004.
2. Lowe, Joseph D *Wildland Firefighting Practices*., Delmar, 2001.

#### X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Wildland firefighting gloves, NFPA and ANSI Approved
- B. Wildand firefighting boots, NFPA and ANSI approved
- C. Las Positas College Fire Technology T-Shirt