

Las Positas College  
3000 Campus Hill Drive  
Livermore, CA 94551-7650  
(925) 424-1000  
(925) 443-0742 (Fax)

## Course Outline for FST 51

### FIRE SERVICE OPERATIONS

Effective: Fall 1995

#### I. CATALOG DESCRIPTION:

FST 51 — FIRE SERVICE OPERATIONS — 3.00 units

Fire department organization, management, and resources; fire company organization; resources to control various emergencies; multi-agency coordinating systems; support and regulatory agencies; strategy and tactics applied to structural fire fighting, wildland fire fighting, and hazardous material emergencies; and safety conditions to be considered.

3.00 Units Lecture

#### Prerequisite

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

#### Grading Methods:

Letter Grade

#### Discipline:

	<u>MIN</u>
<b>Lecture Hours:</b>	54.00
<b>No Unit Value Lab</b>	18.00
<b>Total Hours:</b>	72.00

#### 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. Identify the organizational divisions of a typical fire department and explain the duties and responsibilities of these divisions;
- B. Identify the management systems and give examples of where they could be used in the fire service;
- C. Describe the elements of mutual aid and automatic aid and the constraints and capabilities of each for a second alarm or larger incident;
- D. Explain in writing what impact regulatory agencies and doctrines have upon a firefighter;
- E. List the various ways emergency calls can come into a dispatch system and explain how units are dispatched;
- F. Identify and describe three separate pieces of fire apparatus and explain where they would be used;
- G. Analyze the steps of size-up and explain how they apply to a structure fire;
- H. Provide examples of the safety procedures used on a wildland fire;
  - I. Explain the differences between the duties of a fire service unit and an ambulance on a typical traffic accident and list the sequence of how they are accomplished;
  - J. List and compare the safety considerations that should be used on various emergency incidences;
- K. Describe how a firefighter can preserve evidence for a fire investigator on a structural fire.

#### V. CONTENT:

- A. Fire service operations
  1. responsibilities and authority
  2. types of agencies
- B. Fire department organization
  1. organization structure
  2. individual responsibilities
- C. Fire service management
  1. administration
  2. management systems
  3. private fire protection agencies
- D. Multi-agency coordinating systems
  1. state, region, country, and area
  2. mutual aid, automatic aid, and move-up

- 3. alarm classifications
- E. Support and regulatory agencies
  - 1. support
  - 2. regulatory
- F. Dispatch systems
  - 1. how calls are received and units dispatched
  - 2. local and supervised alarm systems
- G. Types of fire department apparatus
  - 1. types of engines and their equipment
  - 2. ladder trucks and aerial platforms
  - 3. aircraft and airport apparatus
  - 4. wildland apparatus
  - 5. auxiliary apparatus
  - 6. EMS apparatus
- H. Structural fire fighting
  - 1. fire behavior in structures
  - 2. building construction hazards
  - 3. tactics and strategy
  - 4. types of attacks
  - 5. supporting fire protection systems
  - 6. fireline safety
- I. Wildland fire fighting
  - 1. fire behavior
  - 2. tactics and strategy
  - 3. fireline safety
- J. Emergency medical services
  - 1. types of incidents
  - 2. training requirements
  - 3. ambulances and squads
  - 4. safety
- K. Transportation incidents
  - 1. roadway
  - 2. aircraft
  - 3. rail
  - 4. marine
  - 5. safety
- L. Hazardous materials
  - 1. classification and identification system
  - 2. transportation and pipeline incidents
  - 3. handling and storage incidents
  - 4. tactics and strategy
  - 5. reference texts
  - 6. safety
- M. Fire investigation responsibilities
  - 1. preservation of evidence

#### VI. METHODS OF INSTRUCTION:

- A. **Discussion** -
- B. **Field Trips** -
- C. **Lecture** -
- D. Group activities
- E. Diagnostic quizzes
- F. Audio-visual presentations

#### VII. TYPICAL ASSIGNMENTS:

#### VIII. EVALUATION:

- A. **Methods**
  - 1. Exams/Tests
  - 2. Quizzes
  - 3. Projects
  - 4. Other:
- B. **Frequency**

#### IX. TYPICAL TEXTS:

- 1. - *IFSTA 200 - Essentials of Fire Fighting.*, IFSTA, 0.
- 2. National Fire Protection Handbook

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