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### Course Outline for FST 75B

#### FIRE INSTRUCTOR IB - INST TECH

Effective: Spring 2018

#### I. CATALOG DESCRIPTION:

FST 75B — FIRE INSTRUCTOR IB - INST TECH — 2.00 units

Practice in the development, implementation, and evaluation of in-service training programs. This is the second in a two-course series that is designed for Company Officers and personnel preparing for a Training Officer position. Topics include: Preparing course outlines, establishing levels of instruction, constructing behavioral objectives and lesson plans, developing instructional aids, fundamentals of testing and measurements, test planning, evaluation techniques and tools. Student teaching demonstrations are required of all. This is a State of California Fire Marshal, State Fire Training CFSTES (California State Fire Service Training and Education System) course approved by the California State Fire Board. A certificate will be issued upon successful completion of the course. The course satisfies one of the component requirements for the certification track of "Level I Fire Instructor" and one of the component requirements for the certification track of "Company Officer".

2.00 Units Lecture

#### Prerequisite

FST 75A - Fire Instructor IA  
with a minimum grade of C

#### Grading Methods:

Letter Grade

#### Discipline:

- Fire Technology

|   | <b>MIN</b> |
|---|------------|
| <b>Lecture Hours:</b>                       | 36.00      |
| <b>Expected Outside<br/>of Class Hours:</b> | 72.00      |
| <b>Total Hours:</b>                         | 108.00     |

#### 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. FST75A

#### IV. MEASURABLE OBJECTIVES:

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

- A. Identify instructional terms and concepts associated with vocational education for the fire service;
- B. Apply a variety of identified methods and techniques for training fire personnel;
- C. Select, develop, organize, and utilize instructional materials appropriate for teaching technical lesson plans;
- D. Utilize various criteria and methods to evaluate teaching and learning efficiency;
- E. Apply the major principles of learning through teaching demonstrations utilizing technical lesson plans.

#### V. CONTENT:

- A. Orientation and Administration
  - 1. Introduction to Occupational Analysis
  - 2. CFSTES Certification Tracks
    - a. "Level I Fire Instructor" Certification
    - b. "Company Officer" Certification
- B. Reasons for Fire Instructor 1B
  - 1. In Service training
  - 2. Academy Training
  - 3. Public Relations Activities
  - 4. Fire Prevention
  - 5. Training Officer's Role

- 6. Administrations Role
- 7. Course Development and Terminology Review
  - a. Occupational Analysis
  - b. Course Outline
  - c. Manipulative Lesson Plans
  - d. Technical Lesson Plans
- 8. Technical Lesson Plan Overview
- 9. Legal and Ethical Issues
- 10. Instructor Qualities
  - a. Desirable vs. Undesirable Qualities
  - b. Communication Skills
- C. Course Outline Development
- D. Technical Lesson Plan Components
- E. Levels of Instruction
  - 1. Level I – Basic Knowledge
  - 2. Level II – Competent
  - 3. Level III – Highly Proficient
- F. Student Behavioral Objectives
  - 1. Conditions
  - 2. Behavior
  - 3. Standards
  - 4. Instructor Accountability and Liability
- G. Technical Lesson Plan Development
  - 1. Four Step Method of Instruction
    - a. Preparation
    - b. Presentation
    - c. Application
    - d. Evaluation
- H. Introduction and Utilization of Instructional Aids
  - 1. Video
  - 2. Film
  - 3. Photos, Slide Projectors
  - 4. Overhead Projector
  - 5. Live T.V. Broadcast
  - 6. Computer Based Instructional Aids
    - a. Internet
    - b. Power Point
    - c. Interactive or Presentation Software
    - d. Simulation Software
  - 7. Printed Instructional Aids
    - a. Periodicals, Books
    - b. Duplicate Materials, Handouts
  - 8. Non-Projected
    - a. Chalk Board, White Board, Easel Pads
    - b. Models, Display Boards
- I. Introduction to Information and Activity Sheets
- J. Managing the Classroom Environment
  - 1. Environmental Considerations and Physical Setting
- K. Student Application Techniques
  - 1. Planning
  - 2. Principles of Instruction
  - 3. Methods of Instruction
  - 4. Questioning Techniques
- L. Methods of Technical Lesson Plan Delivery
  - 1. Lecture Method
  - 2. Illustration Method
  - 3. Presentation Step
  - 4. Application Step
  - 5. Evaluation Step
- M. Introduction to Evaluation and Testing
  - 1. Uses for the Evaluation Process
  - 2. Testing and Measurement
  - 3. Developing a Testing Instrument
- N. Utilization of Evaluation Tools
  - 1. Types of Tests
  - 2. Test Administration
- O. Introduction to Test Construction
- P. Methods used to Evaluate Teaching Demonstrations

#### VI. METHODS OF INSTRUCTION:

- A. **Lecture** -
- B. **Discussion** -
- C. Student demonstrations
- D. Power point presentations
- E. Group exercises
- F. Audio-visual aids

#### VII. TYPICAL ASSIGNMENTS:

A. Student will be required to develop two separate "Technical Lesson Plans" for evaluation. One topic of choice and the other on a "Fire Service" related topic. B. Students will be required to present to class as a whole, both of their "Lesson Plans", utilizing proper instructional techniques. C. Students shall complete two state format evaluation forms of other students teaching demonstrations. D. Students shall develop testing instruments related to their Technical Lesson Plans

#### VIII. EVALUATION:

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

- 1. Exams/Tests

2. Quizzes
3. Home Work
4. Other:
  - a. Methods
    1. Short quizzes (CFSTES required quizzes)
    2. Skills demonstration
    3. Final examination
    4. Satisfactory completion of developed "Manipulative Lesson Plans" and associated testing materials

**B. Frequency**

1. Frequency
  - a. Quizzes will be given at start of each class session
  - b. Homework will be assigned from each class session

**IX. TYPICAL TEXTS:**

1. - *Fire Instructor-IB Workbook*., State Fire Marshal's Office, 1997.
2. - *Fire and Emergency Service Instructor*. 7th ed., IFSTA, 2006.

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