

## **COURSE OUTLINE** **Fundamentals of Fire Prevention**

**Course Description:** FS 135. Fundamentals of Fire Prevention. 3 hours credit. Prerequisite: FS 100 or department consent. This course will enable the student to understanding the functions of the fire department organization, inspection, public cooperation and images. The student also will be able to recognize fire hazards and develop and implement a systematic and deliberate inspection program, and survey local, state, and national codes pertaining to fire prevention and related technology.

### **Course Relevance:**

The principles learned in this course will the student to effectively understand the concepts of fire prevention including inspection, code enforcement, public education and investigation. These principles are crucial for the firefighter to perform well in a career as a firefighter.

### **Required Materials:**

Robertson, J. C. (2001) Introduction to Fire Prevention (5<sup>th</sup> ed). Tulsa, OK: Penwell Publishing  
Uniform Fire Code (2000) Whittier, CA: ICBO  
Life Safety Code (2002) Avon, MA: National Fire Protection Association 101  
National Fire Protection Association pamphlets (2002) Avon, MA: National Fire Protection Association101

### **Learning Outcomes:**

1. Understand the necessity of a strong and effective Fire Prevention Division
2. Develop and implement an effective Public Fire Education Program
3. Set up and conduct an on-going fire inspection program
4. Identify the fundamentals of fire investigation

### **Learning PACT**

**Through the student involvement in this course, the student will develop and document his/her achievement of the following PACT skills:**

Primary skills (developed and documented):

1. Teamwork:
  - Through group efforts learn to accept information of others on various group assignments.
2. Critical Thinking:
  - Gain the ability to define a specific need in fire prevention and address that need.
3. Communication Skills-Reading:

- Demonstrate ability to research various type of codes and standards
4. Computer Literacy:
- Utilize the computer to gain additional information on specific areas

Secondary skills (developed but not documented):

Ethical Conduct, Valuing Diversity  
Historical Interpretation,  
Writing, Listening, Speaking  
Field Related Technology, Internet Use

**Assessment Tasks:**

These learning outcomes and primary Learning PACT skills will be demonstrated by:

1. Group assignments on specific topics related to fire prevention functions
2. Make determination of acceptable responses to code issues
3. Research to ascertain proper action to be taken
4. Generate specific reports on technical issues related to investigation

**Course Content:**

- I. Themes – Key recurring concepts that run throughout this course:
  - A. Communication
  - B. Research
  
- II. Issues - Key issues that will be addressed in this course: areas of conflict that must be understood in order to achieve the intended outcome:
  - A. Determining the intent vs. language of the code.
  - B. Overcoming public attitudes towards code enforcement
  
- III. Concepts – Key concepts that must be understood to address the issues:
  - A. Interpretation of language of the code
  - B. Understanding of human behavior
  
- IV. Skills / Competencies - Actions that are essential to achieve the course outcomes:
  - A. Understanding of fire prevention divisions
  - B. Ability to research specific topics areas
  - C. Communication of research results

**Learning Units:**

- I. Fire Prevention and Inspection
  - A. Define fire prevention
  - B. Explain strengths of Fire Prevention Division
  - C. Examine effectiveness of Fire Prevention Division
  
- II. Managing a Fire Prevention Division
  - A. Develop a prevention program

- B. Implement a prevention program
- C. Develop and effective public fire education program

III. Inspecting Agencies

- A. Set up an agency inspection plan
- B. Explain ho to carry out this inspection plan
- C. Explain how to up date an on going inspection plan
- D. Describe fire inspection techniques

IV. Fire Investigation

- A. Identify types of hazards and markings
- B. Identify building construction and occupancies
- C. Examine building exit's and safety factors

**Learning Activities:**

Independent and collaborative learning activities will be assigned inside and outside the classroom to assist the student to achieve the intended learning outcomes. Class discussion, lecture, and reading assignments will also contribute to the learning process.

**Grade Determination:**

The student will be graded on satisfactory completion of assessment tasks (learning activities) attendance, adequate participation, (discussion) and the final project.