

# EASTERN ARIZONA COLLEGE

## Fundamentals of Fire Prevention

Course Design  
2010-2011

### Course Information

**Division** Allied Health  
**Course Number** FSC 130  
**Title** Fundamentals of Fire Prevention  
**Credits** 3  
**Developed by** Patricia A. Burke  
**Lecture/Lab Ratio** 3 Lecture/0 Lab

### Transfer Status

ASU	NAU	UA
Pending Evaluation	Pending Evaluation	Pending Evaluation

**Activity Course** No  
**CIP Code** 43.0203  
**Assessment Mode** Pre/Post Test (10 Questions/10 Points)  
**Semester Taught** Upon Request  
**GE Category** None  
**Separate Lab** No  
**Awareness Course** No  
**Intensive Writing Course** No

### Prerequisites

None

### Educational Value

This course is designed for fire department personnel and students interested in understanding the fundamentals of fire prevention. This course is designed as an introductory tool, which will provide the student with a general overview of all aspects of the fire prevention arena and serve as a strong foundation as the student continues the Fire Science curriculum.

### Description

Introduction to the principles of fire prevention. Includes authority, responsibility and organization of fire prevention, inspection procedures and reports, fire hazard recognition, building construction, and occupancy classifications. Also includes site access and means of egress, water-based fire protection and water supply systems, portable extinguishers, special agent, extinguishing systems, and fire detection and alarm systems, plans review, hazardous materials and flammable and combustible liquids, and storage, handling, and use of other hazardous materials.

### Supplies

None

## **Competencies and Performance Standards**

### **1. Discuss the need, responsibilities, and importance of fire prevention organizations.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Cite the history of major fires in America
- b. Discuss the importance of fire prevention
- c. Identify fire prevention organization responsibilities and functions

#### **Performance Standards**

*You will demonstrate your competence:*

- When learner can cite the history of major fires in America
- When learner can discuss the importance of fire prevention
- When learner can identify fire prevention organization responsibilities and functions

*Your performance will be successful when:*

- Learner completes written test

### **2. Cite the main points relating to the national fire problem.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Discuss the role of the government in fire prevention
- b. Describe two points relating to the national fire problem

#### **Performance Standards**

*You will demonstrate your competence:*

- When learner can discuss the role of the government in fire prevention
- When learner can describe two points relating to the national fire problem

*Your performance will be successful when:*

- Learner completes written test

### **3. Discuss the components of an inspection and the enforcement steps that are utilized.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Describe the responsibilities and objectives of inspection
- b. Discuss the components of enforcement

#### **Performance Standards**

*You will demonstrate your competence:*

- When learner can describe the responsibilities and objectives of inspection
- When learner can discuss the components of enforcement

*Your performance will be successful when:*

- Learner completes written test

**4. Describe the governmental division of authority relating to fire prevention laws, regulations, and standards.**

***Learning objectives***

*What you will learn as you master the competency:*

- a. Discuss how fire prevention laws vary at the Federal, State, and Local level.
- b. Discuss how fire prevention regulations vary at the Federal, State, and Local level.

***Performance Standards***

*You will demonstrate your competence:*

- When learner can discuss how fire prevention laws vary at the Federal, State, and Local level
- When learner can discuss how fire prevention regulations vary at the Federal, State, and Local level

*Your performance will be successful when:*

- Learner completes written test

**5. Identify the difference between laws regulations and standards and cite examples of each.**

***Learning objectives***

*What you will learn as you master the competency:*

- a. Compare fire prevention laws, regulations, and standards
- b. Contrast fire prevention laws, regulations, and standards

***Performance Standards***

*You will demonstrate your competence:*

- When learner can compare fire prevention laws, regulations, and standards
- When learner can contrast fire prevention laws, regulations, and standards

*Your performance will be successful when:*

- Learner is successful on a written test

**6. Discuss the main structural components and utilization of the various construction components pertain to fire safety.**

***Learning objectives***

*What you will learn as you master the competency:*

- a. Illustrate how building codes relate to fire prevention
- b. Describe fire prevention codes.
- c. Examine common problems in existing construction methods and practices

***Performance Standards***

*You will demonstrate your competence:*

- When learner can illustrate how building codes relate to fire prevention
- When learner can describe fire prevention codes
- When learner can examine common problems in existing construction methods and practices

*Your performance will be successful when:*

- Learner is successful on a written test

**7. Discuss the components and utilization of the various types of fire extinguishment, protection, and alarm systems.**

***Learning objectives***

*What you will learn as you master the competency:*

- Identify the effectiveness, types, and components of fire sprinkler systems
- Describe wet and dry fire standpipe systems
- Discuss the special hazard extinguishing systems
- Describe fire alarms and detection systems

***Performance Standards***

*You will demonstrate your competence:*

- When learner can identify the effectiveness, types, and components of fire sprinkler systems
- When learner can describe wet and dry fire standpipe systems
- When learner can discuss the special hazard extinguishing systems
- When learner can describe fire alarms and detection systems

*Your performance will be successful when:*

- Learner is successful on a written test

**8. Discuss the major public education programs and activities and their overall objectives.**

***Learning objectives***

*What you will learn as you master the competency:*

- Identify the objectives of fire investigation and public education
- Describe methods used in determining arson
- Discuss how to prepare a case involving arson
- Identify fire investigation tools
- Demonstrate how to prepare investigative reports
- Illustrate public education activities and special programs

***Performance Standards***

*You will demonstrate your competence:*

- When learner can identify the objectives of fire investigation and public education
- When learner can describe methods used in determining arson
- When learner can discuss how to prepare a case involving arson
- When learner can identify fire investigation tools
- When learner can demonstrate how to prepare investigative reports
- When learner can illustrate public education activities and special programs

*Your performance will be successful when:*

- Learner is successful on a written test

**9. Describe the components of a fire prevention record and reporting system.**

***Learning objectives***

*What you will learn as you master the competency:*

- a. Demonstrate how to properly record and utilize data
- b. Discuss the types of records retained for inspections, citations, building plans, and investigations
- c. Review record retention procedures
- d. Describe how to utilize records to support legislation

***Performance Standards***

*You will demonstrate your competence:*

- When learner can demonstrate how to properly record and utilize data
- When learner can discuss the types of records retained for inspections, citations, building plans, and investigations
- When learner can review record retention procedures
- When learner can describe how to utilize records to support legislation

*Your performance will be successful when:*

- Learner is successful on a written test

**10. Discuss the goals and objectives of fire suppression personnel performing commercial occupancy fire prevention inspections.**

***Learning objectives***

*What you will learn as you master the competency:*

- a. Discuss the goals of a fire prevention program
- b. Describe the objectives of a fire prevention program
- c. Describe how to implement a fire prevention program

***Performance Standards***

*You will demonstrate your competence:*

- When learner can discuss the goals of a fire prevention program
- When learner can describe the objectives of a fire prevention program
- When learner can describe how to implement a fire prevention program

*Your performance will be successful when:*

- Learner is successful on a written test

**11. Describe the major components required when implementing a fire prevention program/division.**

***Learning objectives***

*What you will learn as you master the competency:*

- a. Discuss code adoption and occupancy inspection programs
- b. Describe how zoning is instrumental in fire prevention program implementation
- c. Discuss company inspections
- d. Describe how to implement fire prevention program into public education programs

### **Performance Standards**

*You will demonstrate your competence:*

- When learner can discuss code adoption and occupancy inspection programs
- When learner can describe how zoning is instrumental in fire prevention program implementation
- When learner can discuss company inspections
- When learner can describe how to implement fire prevention program into public education programs

*Your performance will be successful when:*

- Learner is successful on a written test

### **Types of Instruction**

Classroom presentation

### **Grading Information**

#### **Grading Rationale**

Post-test = 10% of final grade. Students who do not take the Post-Test will have their grade dropped by one letter.

#### **Grading Scale**

A	100-90%
B	89-80%
C	79-70%
D	69-60%
F	59% and below