

COURSE OUTLINE

Introduction to Fire Inspection

Course Description

FS 125. Introduction to Fire Inspection. 3 hours credit. Prerequisite: FS 100 with a “C” or better, or currently enrolled in FS 100. This course will enable the student to conduct a building inspection, communicate fire prevention recommendations, and preplan for effective action during fires and emergencies.

Course Relevance

The principles learned in this course provide the student with a broad base of information on fire inspection requirements. Code enforcement is vital to the student seeking a career as a firefighter, particularly a code enforcement official. The information learned in this class will assist the student in taking the examination to become Fire Inspector I certified.

Required Materials

FS 125 Textbook:

Wieder and Smith. (1998). *Fire inspection and code enforcement*. (6th ed.). Stillwater, OK: Fire Protection Publication.

Learning Outcomes

The intention is for the student to be able to

1. Conduct fire inspection
2. Develop communication skills with the public
3. Preplan for fires and emergencies

Primary Learning PACT Skills that will be DEVELOPED and/or documented in this course

Through the student's involvement in this course, he/she will develop his/her ability in the following primary PACT skill areas:

1. Problem Solving
 - Through quickly and effectively identifying solutions for any situation that has to do with fire safety, the student will develop problem solving skills.

Secondary skills (developed but not documented):

Reading
Writing
Speaking
Listening

Major Summative Assessment Task(s)

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

1. Completing a fire safety inspection of a building and communicating fire prevention recommendations

Course Content

- I. Themes – Key recurring concepts that run throughout this course:
 - A. Knowledge of how to conduct an inspection
 - B. Knowledge of how to communicate with the public
- II. Issues – Key areas of conflict that must be understood in order to achieve the intended outcome:
 - A. Loss prevention
 - B. Personal safety
- III. Concepts – Key concepts that must be understood to address the issues:
 - A. Knowledge of codes being enforced
- IV. Skills/Competencies – Actions that are essential to achieve the course outcomes:
 - A. Explain the authority and responsibilities of the fire inspector
 - B. List and explain inspections procedures
 - C. Describe the principles of combustion and fire hazard recognition
 - D. Discuss site construction related to occupancy, and emergency egress
 - E. Describe fire protection systems
 - F. Identify hazardous materials and explain safe storage and handling principles

Learning Units

- I. Authority, responsibility, and organization
- II. Inspection procedures
- III. Principles of combustion and fire growth
- IV. Fire hazard recognition
- V. Construction and occupancy classifications
- VI. Site access and means of egress
- VII. Water-based fire protection and water supply systems
- VIII. Portable fire extinguishers, special agent fire extinguishing systems, and fire detection and alarm systems
- IX. Plans review
- X. Identification of hazardous materials and storage, handling, and use of flammable and combustible liquids
- XI. Storage, handling, and use of other hazardous materials

Learning Activities

Lectures, videos, discussion, and hands-on activities will assist the student in learning.

Grade Determination

The student will be graded on satisfactory completion of the assessment tasks, attendance, assignments, and examinations.