



El Camino College
COURSE OUTLINE OF RECORD – Approved

I. GENERAL COURSE INFORMATION

Subject and Number: Fire and Emergency Technology 110C
Descriptive Title: Fire Inspector III
Course Disciplines: Fire Technology
Division: Industry and Technology

Catalog Description:

This course provides students with a basic knowledge of field inspection roles and responsibilities of a Fire Inspector 1 including basic plan review, emergency access for an existing system, hazardous materials, and the operational readiness of fixed fire suppression systems, existing fire detection and alarm systems, and portable fire extinguishers. The student who completes this course will be awarded a certificate from the Office of the California State Fire Marshal.

Conditions of Enrollment:

Recommended Preparation: Fire and Emergency Technology 1

Course Length:	X Full Term	Other (Specify number of weeks):
Hours Lecture:	1.5 hours per week	TBA
Hours Laboratory:	0 hours per week	TBA
Course Units:	1.5	

Grading Method: Letter
Credit Status: Associate Degree Credit

Transfer CSU: X **Effective Date:** Proposed
Transfer UC:

General Education:
El Camino College:

CSU GE:

IGETC:

II. OUTCOMES AND OBJECTIVES

A. COURSE STUDENT LEARNING OUTCOMES (The course student learning outcomes are listed below, along with a representative assessment method for each. Student learning outcomes are not subject to review, revision or approval by the College Curriculum Committee)

The above SLOs were the most recent available SLOs at the time of course review. For the most current SLO statements, visit the El Camino College SLO webpage at <http://www.elcamino.edu/academics/slo/>.

Given lecture and related instructional material, the student will:

1. Consider the fire protection systems that must be present in an Assembly occupancy.
2. Describe the significance of the term "flashpoint", as it relates to flammable liquids.
3. Select the appropriate fire extinguisher to use on a Class B fire.

B. Course Student Learning Objectives (The major learning objective for students enrolled in this course are listed below, along with a representative assessment method for each)

1. Describe the fire protection requirements normally found in contemporary construction.
 - Essay exams
2. Assess the operational readiness of existing fire suppression systems.
 - Objective Exams
3. Examine fire extinguishers found in various types of occupancies, and determine if the extinguishers are the correct extinguishers for the respective occupancy.
 - Objective Exams
4. Compare vapor density and vapor pressure.
 - Essay exams
5. Select the correct method for storing gasoline in residential occupancies.
 - Objective Exams

III. OUTLINE OF SUBJECT MATTER (Topics are detailed enough to enable a qualified instructor to determine the major areas that should be covered as well as ensure consistency from instructor to instructor and semester to semester.)

Lecture or Lab	Approximate Hours	Topic Number	Major Topic
Lecture	3	I	Fire Prevention Systems A. Fire alarms B. Fire sprinklers C. Special systems
Lecture	4	II	Emergency Access and Accessibility Requirements A. Minimum height B. Minimum width C. Road accessibility D. Signage and curb markings E. Gates and barricades
Lecture	6	III	Operational Readiness of Fixed Fire Suppression Systems A. Water-based systems B. Fire pumps C. Special extinguishing systems D. Codes and standards applicable to fixed fire suppression systems E. Common components to inspect
Lecture	4	IV	Operational Readiness of Existing Fire Detection and Alarm Systems A. Alarm systems B. Initiating alarm devices C. Notification methods D. Panel monitoring E. Signal transmission
Lecture	4	V	Operational Readiness of Portable Fire Extinguishers A. Types of portable fire extinguishers B. Codes and standards applicable to portable fire extinguishers C. Inspecting portable fire extinguishers
Lecture	6	VI	Hazardous Materials A. Define solid, liquid, and gas B. Identify physical properties of solids, liquids, and gases C. Describe storage requirements for flammable and combustible solids, liquids and gases D. Certified Unified Program Agency (CUPA) reporting requirements E. Extinguishing agents for fires involving flammable and combustible materials
Total Lecture Hours		27	
Total Laboratory Hours		0	
Total Hours		27	

IV. PRIMARY METHOD OF EVALUATION AND SAMPLE ASSIGNMENTS

A. PRIMARY METHOD OF EVALUATION:

Problem solving demonstrations (computational or non-computational)

B. TYPICAL ASSIGNMENT USING PRIMARY METHOD OF EVALUATION:

Prepare a one to two-page report outlining the correct procedures to follow when inspecting a wet-pipe sprinkler system. Submit report to the instructor.

C. COLLEGE-LEVEL CRITICAL THINKING ASSIGNMENTS:

1. Prepare a one-page report highlighting the major topics that must be included in a Certified Unified Program Agency (CUPA) report. Submit report to the instructor.
2. Prepare a one-page report detailing the appropriate extinguishing agent(s) to be used when confronted with a fire in an above ground crude oil storage tank. Submit report to the instructor.

D. OTHER TYPICAL ASSESSMENT AND EVALUATION METHODS:

Essay exams
Objective Exams
Other exams
Quizzes
Written homework
Multiple Choice

V. INSTRUCTIONAL METHODS

Discussion
Internet Presentation/Resources
Lecture
Multimedia presentations

Note: In compliance with Board Policies 1600 and 3410, Title 5 California Code of Regulations, the Rehabilitation Act of 1973, and Sections 504 and 508 of the Americans with Disabilities Act, instruction delivery shall provide access, full inclusion, and effective communication for students with disabilities.

VI. WORK OUTSIDE OF CLASS

Study
Required reading
Problem solving activities
Written work

Estimated Independent Study Hours per Week: 3

VII. TEXTS AND MATERIALS

A. UP-TO-DATE REPRESENTATIVE TEXTBOOKS

Robert Klinoff. Introduction to Fire Protection and Emergency Services. 5th edition. Jones and Bartlett, 2015.

B. ALTERNATIVE TEXTBOOKS

C. REQUIRED SUPPLEMENTARY READINGS

D. OTHER REQUIRED MATERIALS

VIII. CONDITIONS OF ENROLLMENT

A. Requisites (Course and Non-Course Prerequisites and Corequisites)

Requisites	Category and Justification
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B. Requisite Skills

Requisite Skills

C. Recommended Preparations (Course and Non-Course)

Recommended Preparation	Category and Justification
Course Recommended Preparation Fire and Emergency Technology-1	

D. Recommended Skills

Recommended Skills
General knowledge of fire inspection practices. FTEC 1 - Identify the various codes, standards, ordinances, and regulations that affect fire protection.

E. Enrollment Limitations

Enrollment Limitations and Category	Enrollment Limitations Impact
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Course created by Junius Murray on 09/01/1993.

BOARD APPROVAL DATE: 02/22/1994

LAST BOARD APPROVAL DATE: 04/17/2017

Last Reviewed and/or Revised by JEFF BAUMUNK on May 2, 2019