



El Camino College
COURSE OUTLINE OF RECORD – Official

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| Course Acronym: | FTEC |
| Course Number: | 110C |
| Descriptive Title: | Fire Inspector 1C - Field Inspection |
| Division: | Health Sciences and Athletics |
| Department: | Fire and Emergency Technology |
| Course Disciplines: | Fire 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. |
| Prerequisite: | FTEC 110A with a minimum grade of B or equivalent |
| Co-requisite: | |
| Recommended Preparation: | Fire and Emergency Technology 1 |
| Enrollment Limitation: | |
| Hours Lecture (per week): | 1.5 |
| Hours Laboratory (per week): | 0 |
| Outside Study Hours: | 3 |
| Total Course Hours: | 27 |
| Course Units: | 1.5 |
| Grading Method: | Letter Grade only |
| Credit Status: | Credit, degree applicable |
| Transfer CSU: | Yes |
| Effective Date: | 1995 |
| Transfer UC: | |
| Effective Date: | |
| General Education: ECC | |
| Term: | |
| Other: | |
| CSU GE: | |
| Term: | |
| Other: | |
| IGETC: | |

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| Term: | |
| Other: | |
| Student Learning Outcomes: | <p>SLO #1</p> <p>Consider the fire protection systems that must be present in an Assembly occupancy.</p> <p>SLO #2</p> <p>Describe the significance of the term "flashpoint", as it relates to flammable liquids.</p> <p>SLO #3</p> <p>Select the appropriate fire extinguisher to use on a Class B fire.</p> |
| Course Objectives: | <ol style="list-style-type: none"> 1. Describe the fire protection requirements normally found in contemporary construction. 2. Assess the operational readiness of existing fire suppression systems. 3. Examine fire extinguishers found in various types of occupancies, and determine if the extinguishers are the correct extinguishers for the respective occupancy. 4. Compare vapor density and vapor pressure. 5. Select the correct method for storing gasoline in residential occupancies. |
| Major Topics: | <p>I. Fire Prevention Systems (3 hours, lecture)</p> <p>A. Fire alarms</p> <p>B. Fire sprinklers</p> <p>C. Special systems</p> <p>II. Emergency Access and Accessibility Requirements (4 hours, lecture)</p> <p>A. Minimum height</p> <p>B. Minimum width</p> <p>C. Road accessibility</p> <p>D. Signage and curb markings</p> <p>E. Gates and barricades</p> <p>III. Operational Readiness of Fixed Fire Suppression Systems (6 hours, lecture)</p> <p>A. Water-based systems</p> <p>B. Fire pumps</p> <p>C. Special extinguishing systems</p> <p>D. Codes and standards applicable to fixed fire suppression systems</p> |

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| | <p>E. Common components to inspect</p> <p>IV. Operational Readiness of Existing Fire Detection and Alarm Systems (4 hours, lecture)</p> <p>A. Alarm systems</p> <p>B. Initiating alarm devices</p> <p>C. Notification methods</p> <p>D. Panel monitoring</p> <p>E. Signal transmission</p> <p>V. Operational Readiness of Portable Fire Extinguishers (4 hours, lecture)</p> <p>A. Types of portable fire extinguishers</p> <p>B. Codes and standards applicable to portable fire extinguishers</p> <p>C. Inspecting portable fire extinguishers</p> <p>VI. Hazardous Materials (6 hours, lecture)</p> <p>A. Define solid, liquid, and gas</p> <p>B. Identify physical properties of solids, liquids, and gases</p> <p>C. Describe storage requirements for flammable and combustible solids, liquids and gases</p> <p>D. Certified Unified Program Agency (CUPA) reporting requirements</p> <p>E. Extinguishing agents for fires involving flammable and combustible materials</p> |
| Total Lecture Hours: | 27 |
| Total Laboratory Hours: | 0 |
| Total Hours: | 27 |
| Primary Method of Evaluation: | 1) Substantial writing assignments |
| 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. |
| Critical Thinking Assignment 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. |
| Critical Thinking Assignment 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. |

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| Other Evaluation Methods: | Essay Exams, Multiple Choice, Objective Exam, Other Exams, Quizzes, Written Homework |
| Instructional Methods: | Discussion, Lecture, Multimedia presentations, Other (specify) |
| If other: | Internet Presentation/Resources |
| Work Outside of Class: | Problem solving activity, Required reading, Study, Written work (such as essay/composition/report/analysis/research) |
| If Other: | |
| Up-To-Date Representative Texts: | California Fire Code (International Code Council), current edition Fire Inspection and Code Enforcement (IFSTA, 2016, 8th edition) (Discipline Standard) ISBN: 9780879396053 or Fire Inspector: Principles and Practice (International Association of Fire Chiefs), Revised Enhanced 1st edition, 2012. (Discipline Standard) ISBN: 9780763798574 |
| Alternative Texts: | |
| Required Supplementary Readings: | |
| Other Required Materials: | |
| Requisite: | FTEC 110A with a minimum grade of B |
| Category: | Sequential |
| Requisite course(s): List both prerequisites and corequisites in this box. | |
| Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s). | Identify commonly used codes and standards while completing a fire inspection. FTEC 110A - Evaluate inspection plans for various types of occupancies. FTEC 110A - Compare and contrast the principles of operation of fixed fire protection systems. FTEC 110A - Determine the placement, operation, and inspection requirements of portable fire extinguishers. FTEC 110A - Evaluate and design solutions to fire hazards in various types of occupancies. FTEC 110A - Interpret codes and ordinances related to fire prevention. |
| Requisite Skill: | Identify commonly used codes and standards while completing a fire inspection. Passed "Fire Inspector 1" Certification Test |
| Requisite Skill and Matching Skill(s): Bold the requisite skill(s). If applicable | |
| Requisite course: | Fire and Emergency Technology 1 |

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| Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s). | General knowledge of fire inspection practices. FTEC 1 - Identify the various codes, standards, ordinances, and regulations that affect fire protection. |
| Requisite Skill: | |
| Requisite Skill and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s). If applicable | |
| Enrollment Limitations and Category: | |
| Enrollment Limitations Impact: | |
| Course Created by: | Junius Murray |
| Date: | 09/01/1993 |
| Original Board Approval Date: | 02/22/1994 |
| Last Reviewed and/or Revised by: | Tracy Rickman |
| Date: | 10/12/2023 |
| Last Board Approval Date: | 01/17/2024 |
| Effective Term: | FALL 2024 |