



El Camino College  
 COURSE OUTLINE OF RECORD – Official

<b>Course Acronym:</b>	FTEC
<b>Course Number:</b>	110B
<b>Descriptive Title:</b>	Fire Inspector 1B - Fire and Life Safety
<b>Division:</b>	Health Sciences and Athletics
<b>Department:</b>	Fire and Emergency Technology
<b>Course Disciplines:</b>	Fire Technology
<b>Catalog Description:</b>	This course provides students with a basic knowledge of fire and life safety aspects related to the roles and responsibilities of a Fire Inspector 1 including building construction, occupancy classifications, occupancy load, means of egress, hazardous conditions, fire growth potential, fire flow, and emergency planning and preparedness measures. The student who completes this course will be awarded a Certificate from the Office of the California State Fire Marshal.
<b>Prerequisite:</b>	FTEC 110A with a minimum grade of B or equivalent
<b>Co-requisite:</b>	
<b>Recommended Preparation:</b>	Fire and Emergency Technology 1
<b>Enrollment Limitation:</b>	
<b>Hours Lecture (per week):</b>	1.5
<b>Hours Laboratory (per week):</b>	0
<b>Outside Study Hours:</b>	3
<b>Total Course Hours:</b>	27
<b>Course Units:</b>	1.5
<b>Grading Method:</b>	Letter Grade only
<b>Credit Status:</b>	Credit, degree applicable
<b>Transfer CSU:</b>	Yes
<b>Effective Date:</b>	1995
<b>Transfer UC:</b>	
<b>Effective Date:</b>	
<b>General Education: ECC</b>	
<b>Term:</b>	
<b>Other:</b>	
<b>CSU GE:</b>	
<b>Term:</b>	
<b>Other:</b>	
<b>IGETC:</b>	

<b>Term:</b>	
<b>Other:</b>	
<b>Student Learning Outcomes:</b>	<p><b>SLO #1</b></p> <p>Compare Type I and Type II building construction features.</p> <p><b>SLO #2</b></p> <p>Examine the egress requirements for a fourteen (14) story hotel.</p> <p><b>SLO #3</b></p> <p>Analyze an evacuation plan for a hospital, and determine the hazards.</p>
<b>Course Objectives:</b>	<ol style="list-style-type: none"> <li>1. Compare and contrast the five (5) types of building construction.</li> <li>2. Evaluate the hazards that may develop in structures of masonry construction.</li> <li>3. Describe occupancy classification types.</li> <li>4. Assess the egress requirements in an R1 occupancy.</li> <li>5. Examine the impact of water flow testing as it relates to discharge requirements under the National Pollution Discharge Elimination System.</li> <li>6. Analyze the evacuation plans for I occupancies, and determine the hazards.</li> </ol>
<b>Major Topics:</b>	<p><b>I. Building Construction (6 hours, lecture)</b></p> <p>A. Type I (A and B)</p> <p>B. Type II (A and B)</p> <p>C. Type III (A and B)</p> <p>D. Type IV</p> <p>E. Type V</p> <p>F. Fire resistive components</p> <p><b>II. Occupancy Classifications (3 hours, lecture)</b></p> <p>A. A occupancies</p> <p>B. B occupancies</p> <p>C. H occupancies</p> <p>D. I occupancies</p> <p>E. R occupancies</p> <p><b>III. Means of Egress (6 hours, lecture)</b></p> <p>A. Doors</p> <p>B. Windows</p>

	<p>C. Hardware</p> <p>D. Corridors</p> <p>E. Stairs</p> <p>F. Ramps</p> <p><b>IV. Basic Fire Behavior (4 hours, lecture)</b></p> <p>A. Fire triangle</p> <p>B. Ignition sources</p> <p>C. Fire prevention measures</p> <p>D. Hazard assessment</p> <p><b>V. Fire Flow Requirements (4 hours, lecture)</b></p> <p>A. Types of water distribution systems</p> <p>B. Public versus private water supply systems</p> <p>C. Testing procedures</p> <p>D. Calculating fire flow</p> <p><b>VI. Emergency Planning and Preparedness Measures (4 hours, lecture)</b></p> <p>A. Occupancies requiring an evacuation plan</p> <p>B. Elements of an evacuation plan</p> <p>C. Emergency evacuation drills</p> <p>D. Required reports</p>
<b>Total Lecture Hours:</b>	27
<b>Total Laboratory Hours:</b>	0
<b>Total Hours:</b>	27
<b>Primary Method of Evaluation:</b>	2) Problem solving demonstrations (computational or non-computational)
<b>Typical Assignment Using Primary Method of Evaluation:</b>	Discuss the hazards associated with masonry construction. Prepare a one- to two-page report outlining your findings and submit to the instructor.
<b>Critical Thinking Assignment 1:</b>	Compute the fire flow requirements for a 50,000 square foot super market of Type II construction. Report computations on a one-page report and submit to the instructor.

<b>Critical Thinking Assignment 2:</b>	Prepare a two-page emergency evacuation plan for a 500-seat auditorium and submit to the instructor.
<b>Other Evaluation Methods:</b>	Essay Exams, Multiple Choice, Objective Exam, Performance Exams
<b>Instructional Methods:</b>	Discussion, Lecture, Multimedia presentations, Other (specify)
<b>If other:</b>	Internet Presentation/Resources
<b>Work Outside of Class:</b>	Answer questions, Required reading, Study, Written work (such as essay/composition/report/analysis/research)
<b>If Other:</b>	
<b>Up-To-Date Representative Texts:</b>	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
<b>Alternative Texts:</b>	
<b>Required Supplementary Readings:</b>	
<b>Other Required Materials:</b>	
<b>Requisite:</b>	FTEC 110A with a minimum grade of B
<b>Category:</b>	Sequential
<b>Requisite course(s): List both prerequisites and corequisites in this box.</b>	
<b>Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).</b>	<b>Identify commonly used codes and standards while completing a fire inspection.</b>  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.
<b>Requisite Skill:</b>	<b>Identify commonly used codes and standards while completing a fire inspection.</b>  Passed "Fire Inspector 1" Certification Test
<b>Requisite Skill and Matching Skill(s): Bold</b>	

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