

<b>Name:</b>	<i>Fire Prevention</i>
<b>Course Description:</b>	This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.
<b>Prerequisite:</b>	None.
<b>Outcomes:</b>	<ol style="list-style-type: none"> <li>1. Define the national fire problem and main issues relating thereto.</li> <li>2. Recognize the need, responsibilities, and importance of fire prevention as part of an overall mix of fire protection.</li> <li>3. Recognize the need, responsibilities, and importance of fire prevention organizations.</li> <li>4. Review minimum professional qualifications at the state and national level for Fire Inspector, Fire Investigator, and Public Educator.</li> <li>5. Define the elements of a plan review program.</li> <li>6. Identify the laws, rules, codes, and other regulations relevant to fire protection of the authority having jurisdiction.</li> <li>7. Discuss training programs for fire prevention.</li> <li>8. Design media programs.</li> <li>9. Discuss the major programs for public education.</li> </ol>
<b>Suggested Student Texts:</b>	<i>Fire Prevention: Code Enforcement &amp; Inspection</i> ; David Diamantes <i>Fire Inspection and Code Enforcement</i> , IFSTA <i>Fire &amp; Life Safety Educator</i> ; IFSTA <i>Introduction to Fire Prevention</i> ; James Robertson <i>Life Safety Code 101 Handbook</i> ; NFPA <i>NFPA Fire Protection Handbook</i> (NFPA CD-ROM licensing agreement available)
<b>Supporting References/Research for Faculty and Students:</b>	<b>U. S. Fire Administration</b> <u>Publications</u> : <a href="http://www.usfa.fema.gov/applications/publications/pubs_main.cfm">http://www.usfa.fema.gov/applications/publications/pubs_main.cfm</a> See Arson, Fire Data, Fire Protection, Fire Safety and Public Education, Fire Service Administration, Training, Wildfire <u>Applied Research</u> : <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/research.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/research.cfm</a> <u>Research Reports</u> : <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/r_reports.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/r_reports.cfm</a>

<p><b>Supporting References/Research for Faculty and Students:</b></p>	<p>Technical Reports:  <a href="http://www.usfa.fema.gov/applications/publications/techreps.cfm">http://www.usfa.fema.gov/applications/publications/techreps.cfm</a></p> <p>Topical Fire Research Series:  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/tfrs.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/tfrs.cfm</a></p> <p>Learning Resource Center:  <a href="http://www.usfa.fema.gov/dhtml/inside-usfa/lrc.cfm">http://www.usfa.fema.gov/dhtml/inside-usfa/lrc.cfm</a></p> <p><b>National Institute for Standards and Technology</b>  <a href="http://www.fire.nist.gov">http://www.fire.nist.gov</a>: Fire Tests/Data, Publications</p> <p><b>References</b>  <a href="http://www.homefiresprinkler.org/">http://www.homefiresprinkler.org/</a>  Society of Fire Protection Engineers:  <a href="http://www.pentoncmg.com/sfpe/index.html">http://www.pentoncmg.com/sfpe/index.html</a></p> <p><b>Current Events/News</b>  <a href="http://www.firehouse.com/">http://www.firehouse.com/</a>  <a href="http://www.fireengineering.com/">http://www.fireengineering.com/</a>  <a href="http://www.withthecommand.com/">http://www.withthecommand.com/</a></p>
<p><b>Assessment:</b></p>	<p>Students will be evaluated for mastery of learning objectives by methods of evaluation to be determined by the instructor.</p>
<p><b>Point(s) of Contact:</b></p>	<p>Larry Perez, San Antonio College, TX  (210) 733-2967 <a href="mailto:LPEREZ@ACCD.EDU">LPEREZ@ACCD.EDU</a>  Ralph K. De La Ossa, Long Beach City College, California,  (562) 938-4338, <a href="mailto:rdelaossa@lbcc.edu">rdelaossa@lbcc.edu</a></p>

## **Course Outline**

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### ***Fire Prevention***

- I. History and Development of Fire Prevention
  - A. Fire Prevention Organizations
    - 1. Public
    - 2. Federal
    - 3. State
    - 4. Private
  
- II. Organization of a Fire Prevention Bureau
  - A. Functions
  - B. Fire Prevention Duties and Responsibilities
  - C. Fire Prevention Tools of the Trade
  
- III. Building Codes and Fire Prevention
  - A. Model Building Codes
  - B. Other Codes
  
- IV. Fire Codes and Fire Prevention
  
- V. Structural Elements
  
- VI. Inspection Procedures
  
- VII. Identification of Hazards
  - A. Common vs. Special Hazards
  - B. Hazard Types
  - C. Non-structural Hazards
  - D. Deficiencies in Fire Protection Equipment and Systems
  
- VIII. Abatement and Mitigation of Hazards
  
- IX. Fire Investigation
  
- X. Public Fire Safety Education
  
- XI. Plan Review
  
- XII. Report Preparation and Record Keeping

