



**CALIFORNIA FIRE CHIEFS ASSOCIATION**  
**SOUTHERN CALIFORNIA FIRE PREVENTION OFFICERS**  
*FIRE SERVICE EDUCATION COMMITTEE*

# FIRE PROTECTION ACADEMY 2020

*New and experienced inspectors and plan checkers will benefit from this unique, first time ever offered Academy focusing on SYSTEMS that you deal with every day. Learn what you need to know from experts.*

Intro to CA Statutes & Regulations	Fire Sprinkler - 13D / 13R	Fire Sprinkler - 13	Special Extinguishing Systems	Fire Alarm Systems	Intro to NFPA Codes & Standards
<p style="text-align: center;"><b>Tue Oct 6</b> 8:00 - 12:00</p> <p>See details on page 2</p> <p>Instructors: <b>Crystal Sujeski</b> Deputy SFM III and <b>Greg Andersen</b> Division Chief State Fire Marshal - Code Analysis &amp; Development Div</p>	<p style="text-align: center;"><b>Tue Oct 13</b> 8:00 – 12:00</p> <p>See details on page 2</p> <p>Instructor: <b>Jamil Shamoon</b> Symons Fire Protection</p>	<p style="text-align: center;"><b>Tue Oct 20</b> <b>Tue Oct 27</b> <b>Mon Nov 2</b> <b>Thur Nov 5</b> <b>Tue Nov 10</b></p> <p style="text-align: center;"><b>8:00 - 12:00</b></p> <p>See details on page 2</p> <p>Instructor: <b>Shawn Arballo</b> Training Coordinator Sprinkler Fitters 709 J.A.C.</p>	<p style="text-align: center;"><b>Tue Dec 1</b> 8:00 - 12:00</p> <p>See details on page 2</p> <p>Instructors: <b>Chris Reimer</b> Facilities Protection Systems  <b>Alan Holmes</b> Pye-Barker Fire &amp; Safety (for kitchen / hood / duct FPS)</p>	<p style="text-align: center;"><b>Thur Dec 3</b> <b>Tue Dec 8</b></p> <p style="text-align: center;"><b>8:00 – 12:00</b></p> <p>See details on page 2</p> <p>Instructors: <b>Gabe Lavato</b> and <b>Rick Cortina</b> Apple Valley Communications</p>	<p style="text-align: center;"><b>Thur Dec 10</b> 8:00 - 10:00</p> <p>See details on page 2</p> <p>Instructor: <b>Ray Bizal</b> Director of Regional Operations National Fire Protection Association</p>

**WOW!! Only \$175.00 FPO/CALBO Members \$225.00 All Others**  
 ICC CEU's will be issued; all training held on Zoom

**Deadline to register: Friday, Oct 2**

[www.firepreventionofficers.org](http://www.firepreventionofficers.org)

Questions? Contact Nicole Pesqueira / nicolepe@ci.brea.ca.us / 714-990-7652

# TOPICS

Intro to CA Statutes & Regulations	Fire Sprinkler Systems – Residential (NFPA 13D / 13R)	Fire Sprinkler Systems - Commercial (NFPA 13)	Special Extinguishing Systems	Fire Alarm Systems	Intro to NFPA Codes & Standards
<p><u>Tue Oct 6</u></p> <p><b>Laws and Regulations</b></p> <ul style="list-style-type: none"> <li>• Quick Guide to laws (handout)</li> <li>• CA Fire Laws – book as reference</li> <li>• Inspection Practices in Law</li> <li>• SFM authority and local enforcement authority</li> </ul> <p><b>Legislative Update</b></p> <p><b>CA Regulations Title 19 and Title 24</b></p> <ul style="list-style-type: none"> <li>• Process               <ul style="list-style-type: none"> <li>○ Pre-rulemaking</li> <li>○ Model to State – why State amendments?</li> <li>○ Local adoption – why local amendments?</li> <li>○ Roles of other State agencies</li> <li>○ Errata and Supplements</li> </ul> </li> <li>• Timeline</li> <li>• Proposals               <ul style="list-style-type: none"> <li>○ 9-point criteria</li> </ul> </li> <li>• Rationale</li> </ul> <p><b>National Standards and other Reference Documents</b></p> <p><b>Hot Topics</b></p> <p><b>Open Discussion</b></p> <p><b>Get Involved</b></p>	<p><u>Tue Oct 13</u></p> <p><b>NFPA 13D</b></p> <ul style="list-style-type: none"> <li>• Purpose and overview</li> <li>• Codes and Standards</li> <li>• System components</li> <li>• Types of systems</li> <li>• Design, installation, and inspections – top 10</li> <li>• The goal</li> </ul> <p><b>NFPA 13R</b></p> <ul style="list-style-type: none"> <li>• When to apply NFPA 13R</li> <li>• Key Differences Between NFPA 13R and 13D</li> <li>• Areas that you <u>don't</u> sprinkler!</li> <li>• When NFPA 13R references NFPA 13</li> <li>• Can you mix 13R and 13 systems?</li> <li>• Defining a dwelling unit</li> <li>• Understanding how to protect garages and other areas outside the dwelling unit</li> <li>• Water sources and domestic demand options</li> <li>• Inspection, Testing, Maintenance (ITM)</li> </ul>	<p><u>Tue Oct 20</u></p> <p><b>Underground</b></p> <ul style="list-style-type: none"> <li>• Permits &amp; Plans</li> <li>• Installation Reqts</li> <li>• UG Piping, Fittings</li> <li>• Joint Restraints</li> <li>• Testing &amp; Flushing</li> </ul> <p><u>Tue Oct 27</u> <b>Overhead</b></p> <ul style="list-style-type: none"> <li>• Installation Reqts</li> <li>• Materials / Appurts</li> <li>• Sprinkler Omission</li> <li>• Position, Location, Spacing</li> <li>• Obstruction Rules</li> <li>• Piping Reqts</li> <li>• Hanger Reqts</li> </ul> <p><u>Mon Nov 2</u> <b>Overhead - Cont'd.</b></p> <ul style="list-style-type: none"> <li>• Risers</li> <li>• Seismic Protection</li> <li>• Hydrotest / Flush</li> <li>• Operational Testing of wet, dry, preaction, deluge</li> </ul> <p><u>Thur Nov 5</u> <b>Inspection, Testing, Maintenance (ITM)</b></p> <ul style="list-style-type: none"> <li>• NFPA 25 CAL2013</li> <li>• Sprinkler Sys ITM</li> <li>• Standpipe / Hose ITM</li> <li>• <b>Live Demo in the Valve Room!</b></li> </ul> <p><u>Tue Nov 10</u> <b>ITM – Cont'd.</b></p> <ul style="list-style-type: none"> <li>• Fire Pumps</li> <li>• Obstruction Investigation</li> <li>• Impairments</li> <li>• <b>Live Demo in the Valve Room!</b></li> </ul>	<p><u>Tue Dec 1</u></p> <p><b>Clean Agent Systems</b></p> <ul style="list-style-type: none"> <li>• What is “pre-engineered”?</li> <li>• Halon, FM-200, ECARO-25, NOVEC 1230, Inert Gas, CO2, Argon</li> </ul> <p><b>Pre-Action Systems</b></p> <p><b>Water Mist Systems</b></p> <p><b>Aerosol Systems</b></p> <p><b>Integrated Detection /Control Systems to FACU</b></p> <p><b>Application Design Challenges</b></p> <ul style="list-style-type: none"> <li>• Hot/Cold Aisle Enclosures</li> <li>• Dust Collectors</li> <li>• 3D Printers</li> </ul> <p><b>Design / Plan Check Considerations/ Concentrations</b></p> <ul style="list-style-type: none"> <li>• Detection and Shutdown</li> <li>• Remote Signals</li> <li>• Pressure Venting</li> <li>• Sequence of Operations</li> </ul> <p><b>Commissioning/ Acceptance Testing</b></p> <ul style="list-style-type: none"> <li>• Room Integrity &amp; Door Fan Testing</li> <li>• Discharge Tests</li> </ul> <p><b>Inspection, Testing, Maintenance (ITM)</b></p> <p>11:00-12:00 <b>Kitchen / Hood / Duct FP Systems</b></p> <ul style="list-style-type: none"> <li>• <i>Don't miss the important stuff:</i> Lessons for plan review, inspection, &amp; ITM</li> </ul>	<p><u>Thur Dec 3</u></p> <p><b>Installation - Before Construction</b></p> <ul style="list-style-type: none"> <li>• Plan Review</li> <li>• Overall review of plans</li> <li>• Permits</li> <li>• Kick-Off Meeting</li> </ul> <p><b>Construction Safety Plan</b> (guest instructor: <i>Joseph Cervantes</i>)</p> <p><b>Types of Installations</b></p> <ul style="list-style-type: none"> <li>• Sprinkler Monitoring</li> <li>• Manual Fire Alarm</li> <li>• Automatic Fire Alarm</li> <li>• Voice Fire Alarm</li> <li>• Mass Notification</li> </ul> <p><b>Sub-Systems</b></p> <ul style="list-style-type: none"> <li>• Elevator</li> <li>• Generator</li> <li>• Fire Pump</li> <li>• Gas Detection</li> </ul> <p><b>Final Paperwork</b></p> <p><u>Tue Dec 8</u> <b>Inspection, Testing, Maintenance (ITM)</b></p> <ul style="list-style-type: none"> <li>• Fire Alarm Testing</li> <li>• The Good Old Days</li> <li>• Certifications</li> <li>• Paperwork (Before Testing is Performed)</li> <li>• Safety Protocol</li> <li>• First Test Observation “Visual Inspection”</li> <li>• Inspection</li> <li>• NFPA 72 (2016)</li> <li>• Basic Functional Testing</li> <li>• Tools of the Trade</li> <li>• Advanced Testing Procedures</li> <li>• Final Paperwork</li> </ul>	<p><u>Thur Dec 10</u></p> <p><b>Who is NFPA?</b></p> <p><b>What's the difference between Codes, Standards, Guides, and Reference Standards?</b></p> <p><b>How are NFPA codes, standards, guides, and reference standards developed?</b></p> <p><b>How can you impact national fire safety?</b></p> <p><b>Are the latest editions the ones we should use?</b></p> <p><b>NFPA resources to assist you</b></p>