

2020 CFPI Class Descriptions

Understanding and Enforcement of Carbon Dioxide Regulations in NFPA 55

Instructor Scott Clarkson

Monday, March 9, 2020 8:00 - 12:00

Session 101 - 4hrs

Students will gain a better understanding of Regulations for the use, storage and handling of Carbon Dioxide and how to plan review, inspect and regulate the standard in their communities.

- Students will learn about the Carbon Dioxide requirements contained in NFPA 55.
- Students will develop a better knowledge of NFPA 55 and be able to utilize that knowledge in plan review, permit and new installation inspections.
- Students will learn of the safety issues affected by mishandling of Carbon Dioxide and be able to avoid the safety hazards created by unsafe use of Carbon Dioxide.

Working Effectively with the Office of the State Fire Marshal

Instructors Greg Andersen and Daniel Berlant

Monday, March 9, 2020 1:00 - 5:00

Session 102 - 4hrs.

The Office of the State Fire Marshal (OSFM) is charged with setting the state's fire and life safety policies including SB 85. Learn the role and responsibilities of the OSFM. See the critical role of the fire service's participation in different processes and learn how you may be able to make a difference. This class will identify the OSFM's committees, workgroups and discuss current topics in fire safety.

- Students will learn about the legislative role of the Office of the State Fire Marshal and their policies related to fire and life safety.
- Students will learn about how they can participate in development of state codes and regulations.
- Students will learn about and receive updates on the various OSFM committees, workgroups and current topics affecting local government agencies and the OSFM.

How to get the most out of your SB 1205 Report

Instructor Randy Metz

Monday, March 9, 2020 8:00 - 12:00

Session 103 - 4hrs.

State Mandated Inspections took a new turn when SB1205 was signed into law. This class will examine how this new legislation came to be, what is actually required within Health & Safety Code 13146.2, 13146.3 & 13146.4, and how to draft your report and resolution from a legal perspective.

- Students will learn the specifics of SB 1205 and their responsibilities.
- Students will also learn how to get the most out of their SB1205 filing.
- Students will gain additional resources to perform inspections and highlight the activities of your community risk reduction programs.

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Smoke Control Design Review, Inspection, Testing and Maintenance

Instructor Jeff Paterson

Monday, March 9, 2020 1:00 - 5:00

Session 104 - 4hrs.

Smoke control can be an incredibly complex process that starts during the beginning phases of design to building occupancy and beyond. All phases of the process are equally important to ensure that the system is installed and continues to operate in a code compliant and safe manner. A comprehensive design and review phase will ensure that the inspection and testing phase will proceed with minimal issues. This class will cover the different phases including design, special inspection, testing, and maintenance and how to tie them all together to ensure that the entire process is as smooth as possible. In addition, the class will briefly cover common issues and other considerations during design, inspections, testing and maintenance.

- Students will learn about the complexities of smoke control systems and how to plan review and inspect smoke control systems during the entirety of the building design and construction process.
- Students will learn the importance of proper installation and how to be sure that smoke control systems are code compliant.
- Students will learn about the comprehensive design and review phase and how to conduct inspection and testing with minimal issues.

Code Compliance and Safety in Cannabis Cultivation and Extraction Facilities

Instructor Todd LeBerge

Monday, March 9, 2020 8:00 - 5:00

Session 105 - 8hrs.

This course will address fire and life safety hazards associated with cannabis grow and extraction operations relating to inspection and plan review under the California Codes. Hazards and mitigation identified include egress, fertilization, fumigation, enrichment, LP Gas extraction, Carbon Dioxide extraction and alcohol distillation extraction operations.

- Students will learn how to identify, and address fire and life safety hazards associated with cannabis grow and extraction operations.
- Students will learn how to conduct inspections and plan review under the California Codes.
- Students will learn about hazards and mitigation identified in cannabis operations that include egress, fertilization, fumigation, enrichment, LP Gas extraction, Carbon Dioxide extraction and alcohol distillation extraction operations.

National Fire Academy's Community Risk Reduction

Instructor Mike Weller

Monday, March 9th & Tuesday, March 10th 8:00 - 5:00

Sessions 108 and 208 - 16hrs.

"Best Practices in Community Risk Reduction" is a two-day course featuring the recognized principles of strategic community risk reduction. Students explore model programs from communities across the U.S. that have been showcased at annual Vision

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20/20 national symposiums. These programs demonstrate what nationally recognized organizations identify as examples of “best practices” in community risk reduction.

- Students will describe what constitutes strategic community risk reduction.
- Students will learn how to summarize risks within the community.
- Students will learn how to propose integrated intervention strategies to address targeted risk issues.
- Student will learn the value of investing resources into community risk reduction.

CSFM Fire Marshal 1C Certification Class, Fire Investigation Program Management **Instructors Dennis Mathisen and Robert Marshall**

Monday, March 9th & Tuesday, March 10th 8 - 5:00, Wednesday, March 11th 8 - 12:00
Sessions 109, 209, and 309 - 20hrs.

Class size limited to 40 students, This course provides an overview of the knowledge, skills, and abilities needed to administer fire investigation requirements, review documentation intended for litigation or resolution, conduct investigative analysis, manage technical resources, develop and manage a comprehensive investigation program, and construct a resource plan for investigations with allied groups.

- Students will learn how to better manage fire investigation programs in their organizations.
- Students will be more familiar with administration of fire investigation requirements, documentation for proper litigation and resolution.
- Students will learn how to manage comprehensive investigations programs and how to construct resource plans for investigations with allied groups.

Residential Daycare Facilities and Managing State Regulations

Instructor Steve Guerrino

Tuesday, March 10, 2020 8:00 - 12:00

Session 201 - 4hrs.

This course will teach students about the California Daycare Regulations in the California Building and Fire Codes and what is required when managing daycare regulations in their communities while conducting plan review, inspections and issuing permits.

- Students will learn about the complexity’s complexity of Daycare Facilities and how to manage the codes and regulations governing them.
- Students will learn how to inspect, and issue permits in new and existing daycare facilities.

Public Information Officer, How to Communicate Effectively in Today’s Media

Instructor Daniel Berlant

Tuesday, March 10, 2020 1:00 - 5:00

Session 202 - 4hrs.

In today's world of social media and 24-hour news, this course will dive into effective strategies to communicate your fire prevention message to the media. Using interviews techniques and targets of opportunity, you will learn how to get your message across and get the behavior change you are looking to make.

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- How to effectively communicate in an interview.
- How to prioritize messaging.

Vortex Systems and Pressure Regulating Devices, All you ever wanted to know!

Instructor Jack Carbone

Tuesday, March 10, 2020 8:00 - 12:00

Session 203 - 4hrs.

With the release of NFPA 770 just around the corner, it's a good time to start understanding hybrid fire protection systems such as the Victaulic Vortex System. This introduction class will discuss special hazard system and the unique function and application of the Victaulic Vortex System. After discussing Vortex, the class will change focus and talk about Pressure Regulating Valves and their application in commercial fire protection systems.

- Introduction of the Victaulic Vortex System.
- Discuss the application of Pressure Regulating Valves in commercial fire protection systems.

Case Studies for Safeguarding Construction Operations

Instructor Kevin Carr

Tuesday, March 10, 2020 1:00 - 5:00

Session 204 - 4hrs.

Do you have questions on fire safety during construction? You may want to consider attending this workshop to learn more about NFPA 241, *Safeguarding Construction, Alteration and Demolition Operations*. One of NFPA's oldest standards, NFPA 241 provides practical tools for jurisdictions, contractors and owners to implement fire safety procedures during all phases of construction. After receiving background on the standard, you will review case studies on topical issues and challenges. This will be culminated via an interactive format and discussion to reveal practical steps, knowledge and insight that you may consider for application.

- Understand the organization of NFPA 241.
- Understand the role of the Fire Prevention Program Manager (FPPM).
- Practice the development/review of a mock Fire Safety Program.

Storage and Use of Hazardous Materials

Instructor James Frater

Tuesday, March 10, 2020 8:00 - 12:00

Session 205 - 4hrs.

Often, business owners are not familiar with California Fire Code (CFC) requirements for storage and use of hazardous materials. As a result, it frequently falls to fire marshal/fire prevention personnel to provide initial assistance regarding the regulations contained within the CFC. This training will provide attendees with a foundational understanding of how hazardous materials are regulated by the CFC and the concepts of maximum allowable quantity and control areas. After the program, attendees will be able to assist customers with available options within the CFC that may permit the proposed hazardous

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material storage or use without classification as an H Occupancy - saving them time and money. This course is beneficial for fire inspectors, fire plans examiners and fire marshals.

- Students will obtain a foundational understanding of how hazardous materials are regulated by the CFC and the concepts of maximum allowable quantity and control areas.
- Students will be able to assist customers with available options within the CFC that may permit the proposed hazardous material storage or use without classification as an H Occupancy.

Building Code. Fire Protection Systems and the Plans Examiner

Instructor James Frater

Tuesday, March 10, 2020 1:00 - 5:00

Session 206 - 4hrs.

Did you know that fire separation distances may trigger the installation of fire protection systems in buildings? Did you know that four story or less R1 or R2 occupancies may require an NFPA 13 fire sprinkler system vs. the expected NFPA 13R system? Did you know that mixed use occupancy buildings may require fire protection systems throughout the building? During this course, we will be exploring the answers to these questions and more. We will be discussing aspects of the California Building Code that are crucial for fire plans examiners to be familiar with to effectively determine whether a fire protection system is required, the type of system required, and the extent the system is required in the building. This course is beneficial for fire inspectors, fire plans examiners and fire marshals.

- Students will learn what separation distances trigger the installation of fire protection systems in buildings.
- Students will learn when fire sprinklers are required based on building design and height and which NFPA 13 and 13R systems are required.
- Students will learn about the California Building Code sections that are crucial for fire plans examiners to be familiar with to effectively determine whether a fire protection system is required, the type of system required, and the extent the system is required in the building.

Session 208, see Monday Session 108

Session 209, see Monday Session 109

California Fire Sprinkler Coalition Update

Facilitators Jason Nailon & Jose Colin

Tuesday, March 10, 2020 5:30 - 7:00

Session 210 - 1.5hrs.

This is an open meeting of the California Fire Sprinkler Coalition, sponsored by the National Fire Protection Association. The membership meets monthly and this is the annual face-to-face meeting for the purpose of bringing stakeholders and fire prevention

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officers together to discuss issues and related information affecting fire sprinklers in California and throughout the Nation.

- Those in attendance will be able to meet and discuss topics and issues affecting fire sprinklers in California.
- Those in attendance will be able to meet and hear reports from the Coalition and various other stakeholders in the Coalition.

National Fire Academy Roundtables

Panel Discussion Facilitators Tonya Hoover, NFA Superintendent and Mike Weller
Wednesday, March 11, 2020 Material Repeated Sessions 8 - 9:45 and 10 - 11:45
Sessions 301 and 302 - approx. 1.5hrs. each

Fire Sprinkler Systems Roundtables

Panel Discussion Facilitator Bruce Lecair and Terri Leyton
Wednesday, March 11, 2020 Material Repeated Sessions 8 - 9:45 and 10 - 11:45
Sessions 303 and 304 - approx. 1.5hrs. each

Fire Alarm Systems Roundtables

Panel Discussion Facilitator Ray Bizal
Wednesday, March 11, 2020 Material Repeated Sessions 8 - 9:45 and 10 - 11:45
Sessions 305 and 306 - approx. 1.5hrs. each

Session 309 - 4hrs. see Monday Session 109

Fire Prevention Officers Joint Committee Meetings (New day and time!)

Facilitators Committee Co-Chairs
Wednesday, March 11, 2020 5:00 - 6:30
Session 311 - 1.5hrs.

Once a year the committees from both the northern and southern sections of the Fire Prevention Officers Associations come together at the CFPI workshop to discuss items of statewide interest and importance. During these meetings positions on various topics are vetted and coordinated positions developed. These meetings are open to all and everyone is encouraged to participate.

These meetings are scheduled to occur following the industry exhibits and raffle. Please refer to the CFPI app for confirmation of the various committees and their meeting location.

Energy Storage Systems (ESS) Fire Safety Concepts

Instructor Howard Hopper
Thursday, March 12, 2020 8:00 - 12:00
Session 401 - 4hrs.

Energy storage systems (ESS) are being installed in ever increasing numbers across the country and create potential significant hazards that need to be mitigated, especially systems that use large quantities of lithium-ion batteries. This training will make it much

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easier to work with system integrators and users to approve safe, code compliant installations.

- The ESS technologies currently on the market.
- The potential fire and explosion hazards associated with these ESS technologies.
- The fire protection concepts (and specific provisions) in the 2018 and 2021 International Fire Codes and NFPA 855 that help mitigate these hazards.
- Safety considerations for responding to incidents involving ESS.

Inspecting Existing Fire & Life Safety Systems

Instructor Scott Corrin

Thursday, March 12, 2020 1:00 - 5:00

Session 402 - 4hrs.

Many fire and life safety, property protection and response systems, such as CO detectors, elevator emergency operation, fire alarm systems, smoke alarms, emergency generators, fire sprinklers, hood systems, emergency evacuation and other systems were installed who knows when, and what life safety systems are in use today. This class will cover the basic inspection, testing and maintenance of these systems, both old and new.

- Provide attendees a formal, structured orientation of field inspection practices, related to less commonly remembered fire & life safety stuff.
- Students will develop a higher level of confidence and knowledge in their in their observations for both new construction inspections, periodic fire safety inspections, and assist in achieving acceptable levels of compliance.

Creating data-driven fire prevention programs using NFPA 1300/1730 for Community Risk Reduction

Instructors Morgana Yahnke and Joe Morelli

Thursday, March 12, 2020 8:00 - 5:00

Session 403 - 8hrs.

This class is aimed at fire prevention officials including fire marshals and staff at all levels who are responsible for forming a high-quality, high-performing fire prevention bureau based on an analysis and implementation of risk reduction strategies and best practices. [NFPA 1730](#), Standard on Organization and Deployment of Fire Prevention Inspection and Code Enforcement, Plan Review, Investigation, and Public Education Operations, outlines the steps used to analyze data from a community risk assessment, identify appropriate fire prevention programs, and develop, implement, and evaluate those programs. Training will cover background, intent, and specific sections of NFPA 1730 including practical examples and exercises. We will also be discussing NFPA 1300, Standard on Community Risk Assessment and Community Risk Reduction Plan Development. This new standard serves as a guide for developing a community risk assessment that can be used for implementing community risk reduction programs.

- Provide a history/overview of the purpose and development of the NFPA 1730 and 1300 standards.

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- Provide examples of how jurisdictions of various sizes can apply these standards to gain support for their programs and align with national standards and best industry practice.
- Give students practical tools for developing a community risk assessment and NFPA 1730 compliant programs.

Six Steps for Automatic Fire Sprinkler Plan Review

Instructor Bob Caputo

Thursday, March 12, 2020 8:00 - 5:00

Session 404 - 8hrs.

This one-day training, based on NFPA 13, Standard for the Installation of Sprinkler Systems covers submittal requirements including tips on reading plans and sprinkler specifications. Participants will see a proven six-step process for reviewing sprinkler system plans that will save time, frustration and provide a higher level of confidence when apply an acceptance stamp. A checklist detailing specific required information, with associated code references will help simplify each plan review – and save you time. Confused by Hydraulic Calculations? Participants will learn a simple approach to reviewing computer generated hydraulics that will allow you to review the input and output, even if you're not well versed in performing calculations or even using a computer.

- Employ a six-step process for sprinkler plans review.
- Identify the requirements for plans and calculations submittals.
- Review a plan review checklist and basis of design.
- Recognize the organization of plans and specifications.
- Employ a six-step process for reviewing hydraulic calculations.

Key Changes to the 2019 California Fire and Building Codes

Instructor Kevin Scott

Thursday, March 12, 2020 8:00 - 5:00

Session 405 - 8hrs.

The 2019 California Building Code and California Fire Code are effective January 1, 2020. This course discusses the major changes from the 2016 California Fire Code to the 2019 California Fire Code, and from the 2016 California Building Code to the 2019 California Building Code.

- The participant will be able to explain the intent and application of the new and revised requirements in the 2018 International Building Code and 2018 International Fire Code adopted by the State of California.
- The participant will be able to explain the intent and application of the new and revised state amendments in the 2019 CBC and CFC.
- The participant will be able to identify the specific code changes that have occurred between the 2016 and 2019 editions of the CA codes.
- The participant will understand the adoption matrix in the CA codes.
- The participant will be able to explain the applicability of new or revised design, plan review and inspection requirements in the California Building Code.

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SRA Fire Safety Regulations CCR Title 14 WUI Workshop

Instructor David Shew

Thursday, March 12, 2020 8:00 - 5:00

Session 406 - 8hrs.

Catastrophic wildfires have grown in both intensity and frequency over the past years. The resulting loss of human lives, structures, local economies, and entire communities has been overwhelming – and unacceptable. This year's WUI class (Wildland Urban Interface) will focus on efforts being done to turn the tide of these losses. Eugene Yu, founder and president of Yuhu Builders, will speak on new fire-resistant building construction materials and techniques. Max Moritz, Ph. D., an Adjunct Professor at the Bren School of Environmental Science & Management at U.C. Santa Barbara, will discuss current scientific research being conducted to better understand wildfire impacts – and better ways for the built environment to resist them. Daniel Gorham, a Research Engineer at IBHS, the Insurance Institute for Business and Home Safety in Richburg, SC, will speak on the latest research being conducted in their labs, showing promising results on how structures can become more resistant to wildfires.

- Students attending this class will explore the latest science, research, new structural materials and landscaping techniques by leading professionals who are actively engaged in finding new ways to combat this growing challenge.
- Students will discuss the most current legislative initiatives, as well as insurance impacts.
- Students will actively engage in WUI presentations and will be encouraged to share their own examples of combatting the structure ignition problem.

Are You Enforcing the Correct NFPA 25 California Edition?

Instructor Bruce Lecair and Steve Fox

Friday, March 13, 2020 8:00 - 12:00

Session 501 - 4hrs.

California is the only state in the Union to adopt into regulation its own edition of NFPA 25 the Standard for Inspection, Testing and Maintenance of Water-based Fire Protection Systems with California amendments. If you are not enforcing this edition, you are likely costing your local property and business owners more money and not enforcing the standard in its entirety. California is getting ready to adopt another edition with new amendments both nationally and California specific.

- Students will learn the difference between the national standard and the California edition of NFPA 25.
- Students will become aware of the differences in required frequencies for Inspection, testing and maintenance of water-based fire protection systems in the California standard.
- Students will be made aware of the new amendments both nationally and California specific.

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Considerations for Utilizing Electronic Plan Review

Instructor Robert Marshall

Friday, March 13, 2020 8:00 – 12:00

Session 502 4hrs.

This course will discuss electronic plan review, and its implications for your fire prevention division. Topics covered will include Electronic Plan Review Basics, software selection, hardware selections, record keeping, electronic signatures, and electronic process vs. traditional the process. There will also be a segment on related software for use with electronic plan review processes.

- Students will learn about the advantages of utilizing electronic plan review.
- Students will become familiar with software and hardware options.
- Students will learn how record keeping and electronic signatures can be; used to their advantage.
- Students will learn the process of electronic plan review.

Utilizing NFPA 921 and the Scientific Method to Make Your Case!

Instructor Robert Rowe

Friday, March 13, 2020 8:00 - 12:00

Session 503 - 4hrs.

This course will discuss the components of the Scientific Method and how to utilize NFPA 921 when investigating fire scenes and writing reports that are complete and effective when it is time to testify on behalf of your fire investigation division.

- Students will develop a greater understanding of NFPA 921 and how to use the standard in all aspects of fire investigations.
- Students will learn about the Scientific Method, why and how to use it effectively when writing reports and giving testimony.

Leadership in Fire Prevention using New and Old Principles

Instructor Gene Gantt

Friday, March 13, 2020 8:00 - 12:00

Session 504 - 4hrs.

This class will explore modern and traditional leadership principles from those who have successfully led effectively while using their leadership skills to lead and motivate their organizational and team members.

- Students will discuss and participate in a conversation on where we are moving toward in leadership in fire and life safety and how to become the type of leader you hope to be.