

# BUILDING A STRONGER CALIFORNIA



CALBO TRAINING INSTITUTE  
2023 MINI EDUCATION WEEK

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Are you ready for  
the 2022 Codes?

Join Us for **2022 Code Courses** -  
12 courses over 3 days!

- ▶ Monday, March 27 -  
Wednesday, March 29, 2023
- ▶ Hilton Orange County / Costa Mesa  
3050 Bristol St  
Costa Mesa, CA 92626

REGISTER NOW  
WWW.CALBO.ORG

Learn More



# 2023 CTI Mini Education Week Outline

If you have questions, please contact the CALBO office at 916-457-1103 or [info@calbo.org](mailto:info@calbo.org).

## We hope you will join us at the 2023 CALBO Training Institute Mini Education Week in Costa Mesa!

- 12 in-person course options over 3 days.
- All courses updated with 2022 code changes.
- 14 subject matter expert instructors.



### Dates

Monday, March 27 - Wednesday, March 29, 2023

### Course Schedule

Each course runs from 8:00am - 3:30pm - 6 hours of instruction (0.6 CEUs).  
Classrooms open at 7:00am each day.

### Venue

Hilton Costa Orange County/Costa Mesa  
3050 Bristol St, Costa Mesa, CA 92626  
714-540-7000

### Parking

**\*\*IMPORTANT: Registrants are responsible for day and night parking fees.\*\***

- **Hotel On-Site Parking:** \$18.00 per overnight and \$10.00 per day.
- **Off-Site Parking Garage:** There is a parking structure next to the hotel (on Hotel and Jian Way) - South Coast Corporate Center Parking Lot (3070 Bristol St, Costa Mesa, CA 92626) that is available for both day and overnight parking.

### In-Person Fee

Each Course

### Member

\$195.00

### Non-Member

\$250.00

### Online Registration

Please register online at [www.calbo.org](http://www.calbo.org). Only online registrations will be accepted. Courses are available first-come, first-served until at capacity.

### Registration Deadline

**Thursday, March 16, 2023 at 5:00pm sharp, no exceptions**

### Meals

Each registrant receives morning and afternoon refreshments along with lunch.

# Mini Education Week Outline (continue)

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## Course Materials

All course materials will be emailed to students 48 hours before each course. **IMPORTANT: No printed materials will be provided by CALBO.** Attendees are encouraged to either print their materials themselves or bring a tablet, laptop or personal electronic device to follow the material during the lecture. Wi-fi will be available in each classroom.

## Classroom Breaks

Two ten-minute breaks are offered in the morning at 9:00am and 10:15am along with two ten-minute breaks in the afternoon at 1:15pm and 2:30pm. A full hour break is given for lunch from 11:15am - 12:15pm. These timelines are strictly followed in each classroom.

## Evaluations

Every attendee will receive an online link for each course to complete an online course and instructor evaluation to ensure that the course(s) met your expectations.

## Certificate of Attendance

Each attendee will be emailed their attendance certificate(s) within 48 hours of each course. Each course is approved by the ICC Preferred Provider Program, and most courses are approved by American Institute for Architects. Please check the course descriptions for further information. For six-hour courses, 0.6 CEUs are granted.

## Cancellation Policy/Transfers

Written notification of cancellation or registration transfer to another staff member must be received 7 days prior to the first-day of the event for a refund, minus a 25% processing fee. Any cancellations or transfers after this date are not granted, and the registrant is responsible for full payment. No-shows will not be refunded.

## Special Needs

CALBO must be notified of any special accommodation or dietary needs at least 15 days prior to the start of the event. Special dietary meal requests are not guaranteed without prior notification.

## Need Assistance?

If you have questions about this event or your registration, please contact the CALBO Office at 916-457-1103 or [info@calbo.org](mailto:info@calbo.org).

# 2023 CTI Mini Education Week

## Course Schedule and Selections



Course Schedule  
and Selections

**IMPORTANT  
REMINDERS**



**Daily Attendance**

Each student is limited to one course each day.



**Daily Course Schedule**

8:00am - 3:30pm



**Registration**

Only online registrations accepted at [www.calbo.org](http://www.calbo.org).



**Attendance Options**

In-Person Only

Monday Costa Mesa in-person March 27, 2023	Tuesday Costa Mesa in-person March 28, 2023	Wednesday Cosa Mesa in-person March 29, 2023
2022 California Building Code: Significant Changes (0.6 CEUs)	2022 California Residential Code: Significant Changes (0.6 CEUs)	2022 CBC Chapter 11A: Privately-Funded Multi-Family Dwelling Accessibility (0.6 CEUs)
2022 California Energy Code: Nonresidential, Single-Family and Multifamily Significant Changes (0.6 CEUs)	Solar Photovoltaic and Energy Storage Systems: Inspection Fundamentals (0.6 CEUs)	Means of Egress in the 2022 California Building Code (0.6 CEUs)
2022 California Mechanical Code: Residential and Commercial Inspection Fundamentals (0.6 CEUs)	2022 California Plumbing Code: Residential and Commercial Inspection Fundamentals (0.6 CEUs)	2022 California Electrical Code: Significant Changes (0.6 CEUs)
Permit Technician Career Advancement: The Core Essentials (0.6 CEUs)	Permit Technician Career Advancement: How to Properly Screen Plans for Successful Permit Services (0.6 CEUs)	Streamlining Residential Plan Review (0.6 CEUs)



**Registration Deadline: Thursday, March 16, 2023 at 5:00pm.**

# 2023 CTI Mini Education Week

## Monday Course Descriptions

### **2022 California Building Code: Significant Changes**

ICC PP Course No. 31883 (0.6 CEUs)  
AIA Course No. 14: 2022 (6 LU | HSWs)



This course examines the significant non-structural revisions to the latest California Building Code (CBC). The course is conducted in a workshop format with the instructor and attendees participating in active discussions of the revisions. The course highlights those areas that have been revised from the 2019 CBC with other code topics welcomed for discussion; chapter 11A and 11B topics are not covered in-depth. Building officials, architects, designers, engineers, plans examiners, field inspectors, and counter technicians are encouraged to attend. The course is appropriate for experienced and not-so-experienced users of the CBC. All attendees receive a digital version of the joint CALBO/ICC publication.

### **2022 California Energy Code: Nonresidential, Single-Family and Multifamily Significant Changes**

ICC PP Course No. 32035 (0.6 CEUs)  
AIA Course No. 22: 2022 (6 LUs)

This course provides an overview of the significant changes to the 2022 Energy Code requirements for nonresidential, single-family and multifamily buildings scheduled to go into effect on January 1, 2023. Topics discussed include heat pumps, electric ready for mixed-fuel buildings, ventilation and indoor air quality, duct sealing, solar PV and battery storage, controlled environmental horticulture spaces, indoor and outdoor lighting systems, grid integration equipment and the new multifamily sections. Information is also provided about 2022 Energy Code resources and tools.

# 2023 CTI Mini Education Week

## Monday Course Descriptions

### continue

### **2022 California Mechanical Code: Residential and Commercial Inspection Fundamentals**

ICC PP Course No. 31677 (0.6 CEUs)

AIA Course No. 10: 2022 (6 LU | HSWs)



This course provides a comprehensive overview and a step-by-step process of performing all mechanical inspections on residential and commercial projects from first to final inspection while identifying what should be found for each stage. Basics of the 2022 California Mechanical Code are covered along with code requirements ranging from the underground to the final inspection. This course helps the inspector identify and prioritize mechanical corrections. The material covers the most common corrections found in the field, relevant code sections and a breakdown of navigating the codebook by its chapters. This simplified yet systematic approach to mechanical inspection also touches on concurring code considerations, such as Zoning and Energy Code requirements.

### **Permit Technician Career Advancement: The Core Essentials**

ICC PP Course No. 31998 (0.6 CEUs)

This course provides the core essentials that all permit technicians should know for their daily work duties. Attendees learn what to understand for permit requirements, how to maintain records, how to collect permit fees, how to support the inspection process, and how to receive and screen plans and related documents to assist the review process and the public. Attendees are provided with a high-level overview of code administration, history and customer service. The instructor highlights common information covered in the ICC Permit Technician certification exam throughout the course. Attendees also receive a checklist to use daily when receiving plans from the public at the permit center.

# 2023 CTI Mini Education Week

## Tuesday Course Descriptions

### 2022 California Residential Code: Significant Changes

ICC PP Course No. 31881 (0.6 CEUs)  
AIA Course No. 15: 2022 (6 LU | HSWs)



This course examines the significant revisions to the latest California Residential Code (CRC). The course is conducted in a workshop format with the instructor and attendees participating in active discussions of the revisions. The course highlights those areas that have been revised from the 2019 CRC with other code topics always welcomed. Building officials, architects, designers, engineers, plans examiners, field inspectors and counter technicians are encouraged to attend. All attendees receive a digital version of the joint CALBO/ICC publication.

### Solar Photovoltaic and Energy Storage Systems: Inspection Fundamentals

ICC PP Course No. 31683 (0.6 CEUs)  
AIA Course No. 11: 2022 (6 LU | HSWs)

This course is an overview of inspection fundamentals for residential and commercial solar photovoltaic (PV) systems. Plan reviewers and inspectors are provided with technics for reviewing solar PV and energy storage systems (ESS) plans for compliance with California codes, including ADUs. Special attention is given to inspection issues and inspection technics of these systems. Attendees learn how to confirm that the submitted plans were properly followed and recognize common field mistakes. A brief overview of the upcoming 2022 code changes for PV systems and ESS is also discussed. As solar PV and ESS are constantly evolving, this course updates on the latest codes and inspection procedures.

# 2023 CTI Mini Education Week

## Tuesday Course Descriptions

### continue

### **2022 California Plumbing Code: Residential and Commercial Inspection Fundamentals**

ICC PP Course No. 31679 (0.6 CEUs)

AIA Course No. 9: 2022 (6 LU | HSWs)



This course provides the process and techniques of performing both residential and commercial plumbing inspections from underground, rough and through final. Basics of the 2022 California Plumbing Code requirements are covered along with how to navigate the code book, inspection procedures and meeting minimum compliance while conducting an inspection. The material is intended to be practical and covers the most common corrections found in the field, their relevant code sections and a break down navigating the code book by its chapters. This course is to help guide and assist the Authority Having Jurisdiction while inspecting different types of plumbing systems.

### **Permit Technician Career Advancement: How to Properly Screen Plans for Successful Permit Services**

ICC PP Course No. 32000 (0.6 CEUs)

This course provides an overview of best practices for permit technicians to ensure an efficient plan review process. Plans are reviewed to provide attendees with an understanding of various and common types, including civil plans, architectural plans, structural plans, electrical plans, fire protection, landscaping plans, mechanical plans, plumbing plans and sewer plans. Attendees also learn how to identify plan revisions, construction documents prerequisites, and explain symbols and abbreviations. A handy checklist is provided to attendees to use during daily plan screening for permit issuance. New and experienced permit technicians are encouraged to attend to strengthen their plan screening experience and technical knowledge.



# 2023 CTI Mini Education Week

## Wednesday Course Descriptions

### 2022 CBC Chapter 11A: Privately-Funded Multi-Family Dwelling Accessibility

ICC PP Course No. 31688 (0.6 CEUs)

AIA Course No. 12: 2022 (6 LU | HSWs)



Chapter 11A is considered by many to be the most challenging chapter in the California Building Code (CBC). This course provides a newly updated comprehensive study of the 2022 CBC Chapter 11A scoping and technical provisions along with the history and intent of accessible housing regulations. Attendees gain a practical understanding of accessibility for covered multifamily dwellings through diagrams, examples and real-world scenarios. Building officials, accessibility plan reviewers, accessibility inspectors, designers, architects, and contractors are encouraged to attend.

### Means of Egress in the 2022 California Building Code

ICC PP Course No. 31968 (0.6 CEUs)

AIA Course No. 16: 2022 (6 LU | HSWs)

This course explains the basic exiting requirements of the 2022 California Building Code: Chapter 10 as well as the general requirements and explanation of the three-part means of egress system. Attendees learn practical methods of reviewing and inspecting egress systems. Permit technicians, building and fire plan reviewers, inspectors, and anyone interested in learning more about egress are encouraged to attend. This course clarifies the code changes from the California Fire Marshal's adoption of CBC/CFC Chapter 10 and CCR Title 19.



**Don't Forget the Registration Deadline!\***

**Thursday, March 16, 2023 at 5:00pm**

**\*Registrations and changes will not be accepted on-site.**

# 2023 CTI Mini Education Week

## Wednesday Course Descriptions

### continue

### 2022 California Electrical Code: Significant Changes

ICC PP Course No. 32002 (0.6 CEUs)

AIA Course No. 19: 2022 (6 LU | HSWs)



Be ready for the changes and new requirements in the 2022 California Electrical Code, which goes into effect on January 1, 2023. This course reviews the most significant updates, including ground-fault circuit interrupters, lighting load calculations, reconditioned equipment, swimming pool requirements and revised definitions for fault current. Updates to specialty topics, including electric vehicle charging systems, solar photovoltaic systems and energy storage systems, are also presented. This course is designed for plan check engineers, combination building inspectors, electrical inspectors and design professionals.

### Streamlining Residential Plan Review

ICC PP Course No. 31982 (0.6 CEUs)

AIA Course No. 17: 2022 (6 LUs)

This course highlights the primary concepts required for performing a comprehensive residential plan review, including the coordination of the various trades. Attendees begin by identifying the minimum information required on the building plan set and progress to reviewing the major components of the site plan, floor plan, roof plan, elevations, sections, title-24 forms, foundation detailing, and framing plan to verify code compliance. Whether it is a new home, an accessory dwelling unit, a room addition, a patio enclosure, or a garage conversion, this course highlights typical code challenges that may be encountered during plan review to help build an understanding of the intention of the code. To enhance customer service, attendees are also shown how to anticipate existing conditions that may have code impacts on the proposed construction of additions, remodels, and garage conversions.

# 2023 CTI Education Weeks Online

## Registration Guide

We hope you'll take advantage of the CALBO Training Institute new and updated courses for your technical and professional advancement. All of the Education Week courses are updated with the 2022 codes to ensure our courses fit your training needs, so don't wait to register.

Secure your spot today by registering instantly using the newly updated online registration portal that makes the process smoother and faster.

**Visit the CTI Education Week Online Registration Portal Today!**

- Visit [www.calbo.org](http://www.calbo.org).
- Under the "Professional Development" tab, click "CALBO Education Weeks Registration".

## Education Week Online Registration Portal Advantages

- Available 24 hours – register anytime, anywhere
- Three step registration process – average registration takes less than 3 minutes
- New scroll over feature for courses – scroll over each course title for a description and ICC CEU and AIA LU information
- Register multiple registrants in one online submission
- Up-to-date information about closed courses, if any
- Invoice or credit card payment options available
- Receive registration confirmations instantly – both submitters and registrants will receive confirmation emails
- Ability to pay invoices online using the payment link on each confirmation



If you have registration questions, please contact the CALBO Office at [info@calbo.org](mailto:info@calbo.org) or 916.457.1103.

# Thank you

## 2022-2023 CTI Instructors, Subject Matter Experts and Course Developers!

A Special  
Thank You  
from CTI!

Greg Anderson, CALFIRE/Office of the State Fire Marshal  
Paul Armstrong, TRB + Associates, Inc.  
Ciara Barnett, County of Los Angeles  
Ron Beehler, BPR Consulting Group  
Mark Berg, BPR Consulting Group  
Frank Bigelow, CALFIRE/Office of the State Fire Marshal  
Bob Bland, City of Los Angeles  
Amie Brousseau, California Energy Commission  
Frank Bush, City of Los Angeles (Retired)  
John Caprarelli, City of Santa Clarita  
Matthew Cotter, City of Los Angeles  
Jesse De Anda, City of Thousand Oaks  
Shane Diller, City of Elk Grove  
Rick English, English Pool Consulting  
Gil Estrada, City of Cathedral City  
Brian Frenger, CSG Consultants, Inc.  
Ed Garcia, City of Los Angeles  
Pete Goodrich, Willdan  
Steve Hawks, CALFIRE/Office of the State Fire Marshal  
Ara Haghnazarian, City of Los Angeles  
Mostafa Kashe, County of Los Angeles  
Bob Latz, CSG Consultants, Inc.  
David MacLean, City of Los Angeles (Retired)  
Sue Moe, Access Compliance Consulting  
Chris Olvera, California Energy Commission  
Armando Pulido, City of Los Angeles  
Raj Patel, JAS Pacific  
Javier Perez, California Energy Commission  
Sara Retmier, City of Beaumont  
Dominique Samario, City of Menifee  
Mehdi Shadyab, City of San Diego  
Brent Smith, City of Oakley  
Andrew Stuffer, City of Santa Barbara (Retired)  
Ron Takiguchi, City of Pasadena  
Rosa Tapia, City of Elk Grove  
George Thomas, County of Santa Cruz  
Brad Wungluck, City of Manteca

Get involved  
with the CALBO  
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Apply today at  
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Special Thank You to the  
CALBO Training Institute!



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**Commissioner Sara Retmier,  
City of Beaumont**

**Commissioner Brent Smith,  
City of Oakley**

**Commissioner Brad Wungluck,  
City of Manteca**

# Thank you

## 2022-2023 CALBO Partners for Your Continual Unwavering Support!

Thank You  
CALBO  
Partners!

As we progress toward a new normal, CALBO continues to prevail and it's due greatly to the unwavering support of CALBO's Partners. Each of these sponsors makes an annual commitment – to show up, to pitch in and to partner with CALBO in promoting the very best of our profession. Our sponsors' commitment to our profession through CALBO was unprecedented.

Please join CALBO in giving thanks to each of these sponsors for their demonstrated commitment to our profession. Please support those, who support CALBO, even in times of change and uncertainty. Looking forward to a wonderful membership year ahead!



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