



# CALBO

## Training Institute

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ANNUAL TRAINING  
CATALOG

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**Building a  
Stronger  
California**

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



# Message from CTI

## 2020 - 2021 CTI Commission

### **CHAIR | Bob Latz**

Regional Manager  
CSG Consultants, Inc.

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Professional Engineer,  
City Building Official  
City of Beverly Hills

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City of Manteca

## Friends and Partners of CALBO



As we begin a new decade of protecting the health, safety and welfare of the public by creating safe buildings and communities, we have another great year of training available to help you navigate the highway of information. The CALBO Training Institute (CTI) has developed and prepared a variety of technically informative and interesting courses for your training needs. We are here to provide a year of valued educational experiences whether at the Education Weeks or through Independent Offerings throughout California. All courses have been created to provide practical applications and interpretations bringing California building departments the finest building-safety training available.

This year, CTI has been working on the development of new courses in addition to the latest updates through code changes that will benefit both seasoned building-safety department personnel and newly recruited industry members. Please take the time to review the courses listed in this catalog to become familiar with the subjects available for your training needs. Each course listed has a course title and description to help you during the registration process. If you have any questions regarding the Education Week curriculum, please do not hesitate to reach out to CALBO staff, myself or the CTI Commission.

CTI strives to provide all of your staff members with the most robust training programs available. CTI is hosting three Education Weeks starting with Ontario (October), Newport Beach (December), and San Ramon (January 2021). Please keep a look out for additional trainings listed as Independent Offerings this spring and summer that are hosted by jurisdictions throughout California. CTI hopes that the Education Weeks and Independent Offerings provide flexibility for departments and industry to send their staff between venues allowing more time in the classroom throughout the entire year. Thank you for your support through attendance and feedback as we continue to expand and enhance valuable training opportunities.

CTI continues to be a leader in quality education as an International Code Council Preferred Provider. Each CTI course has been approved and can be used toward the CEU requirements for renewing your certifications.

Congratulations to the BOLA Class of 2019-2020 who will graduate at the CALBO Annual Conference in Carlsbad. Your hard work will pay great dividends, and we look forward to seeing what you achieve in the future. CTI applauds these students for taking the next step in advancing their careers.

I would personally like to thank you—CALBO members, consultants and industry representatives for your support of all CTI endeavors, especially Education Weeks. Thank you to the CTI Commissioners, course developers and instructors, who volunteer their time and expertise to create essential and meaningful programs. Without each of you, CTI would not be able to provide the premier quality education you deserve. We look forward to seeing all of you as we come together for training and professional development this year!

Sincerely,

**Bob Latz**  
CTI Chair  
Regional Manager  
CSG Consultants, Inc.



# 2020-2021 CTI EDUCATION WEEKS

ONTARIO } NEWPORT BEACH } SAN RAMON

## Registration

 **Registration is available online at [www.calbo.org](http://www.calbo.org) or use this form.**

### 1 General information.

Please complete below and select the course(s) you would like to attend on the back of this page. Send both sides of the registration form, along with payment method, to the address listed below.

FULL NAME

TITLE

JURISDICTION/COMPANY

PHONE

EMAIL **IMPORTANT!** Confirmations will be sent by email.

### 2 Register and select program.

CALBO Member: ☐ Yes ☐ No

Current BOLA Student: ☐ Yes

I will attend: ☐ Ontario ☐ Newport Beach ☐ San Ramon

#### Program Selections

	CALBO Member	Non- Member	Amount Due
Full Week (4 full-day courses, same person)	\$645	\$830	_____
Full Day	\$195	\$250	_____
One Half-Day	\$140	\$165	_____
Two Half-Days (same day, same person)	\$195	\$250	_____
		<b>TOTAL</b>	_____

☐ **VEGETARIAN MEALS:**

Please check here if you prefer vegetarian meals.

**All courses are full-day unless otherwise noted.** Full-day courses are scheduled for 8:00 am – 3:30 pm. Half-day courses are scheduled for 8:00 am – 11:15 am and 12:15 pm – 3:30 pm. Certificates will be given to registrants who stay for complete courses only, no exceptions. Each course has been approved by the ICC Preferred Provider Program.

**Registration** begins each morning at 7:00 am. Morning refreshments will be available at 7:00 am. Morning refreshments include coffee and light breakfast foods. Please plan to arrive in time to be seated in class at 8:00 am.

**Lunch** is provided to all full-day registrants. Lunch will be 11:15 am – 12:15 pm. Morning and afternoon refreshments will be provided to both half-day and full-day registrants.

### 3 Select method of payment.

☐ **CREDIT CARD: VISA, AMEX or Mastercard ONLY**

CREDIT CARD NUMBER

EXPIRES

CVC#

BILLING ADDRESS

CITY

STATE

ZIP

NAME ON CARD

SIGNATURE

☐ **INVOICE / PURCHASE ORDER:**

INVOICE / PO NUMBER

NAME OF PAYMENT CONTACT

PHONE / EMAIL OF PAYMENT CONTACT



#### REGISTRATION DEADLINES:

##### Ontario:

Tuesday, October 6, 2020

##### Newport Beach:

Tuesday, December 1, 2020

##### San Ramon:

Thursday, January 14, 2021

#### SEND FORM WITH PAYMENT TO:



California Building Officials  
1022 G Street  
Sacramento, CA 95814



Email: [info@calbo.org](mailto:info@calbo.org)



**Cancellations received 7 days prior to the first day of the event will be refunded, minus a 25% processing fee. Refund requests must be received in writing. Cancellations received after will not be refunded, and registrants are responsible for full payment. No-shows will not be refunded and are responsible for full payment. Registration may be transferred to another session or another individual with prior authorization of CALBO staff. CALBO reserves the right to cancel a class for low enrollment. Registration may be transferred if class is cancelled.**

### 4 Select venue and courses (Page 4).

OFFICE USE ONLY: CC CK INV #

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DATE

# Course Selections

## 2020-2021 CTI Education Weeks

**1** Please select one Education Week venue.

☐ Ontario ☐ Newport Beach ☐ San Ramon

### COURSE TIMES

Full Day: 8:00 am – 3:30 pm  
AM Half Day: 8:00 am – 11:15 am  
PM Half Day: 12:15 pm – 3:30 pm

**2** Please check the course(s) you will attend at this venue in the matrix below.  
One course per student per day.

**!** All courses are Full Day unless indicated as an AM Half Day or PM Half Day



☒ Ontario  
☐ Newport Beach  
☐ San Ramon

MONDAY October 19, 2020 December 14, 2020 January 25, 2021	TUESDAY October 20, 2020 December 15, 2020 January 26, 2021	WEDNESDAY October 21, 2020 December 16, 2020 January 27, 2021	THURSDAY October 22, 2020 December 17, 2020 January 28, 2021
<input type="checkbox"/> 2019 California Building Code: Significant Changes	<input type="checkbox"/> 2019 California Residential Code: Significant Changes	<input type="checkbox"/> 2019 California Building Code: Significant Changes <b>new!</b>	<input type="checkbox"/> 2019 California Residential Code: Significant Changes
<input type="checkbox"/> 2019 CBC Chapter 11A: Privately-Funded Multi-Family Dwelling Accessibility	<input type="checkbox"/> 2019 CBC Chapter 11B Accessibility in Public Buildings, Public Accommodations and Commercial Buildings: History, Use and Updates	<input type="checkbox"/> Understanding Load Path: Unraveling the Complicated	<input type="checkbox"/> Applying Accessibility Requirements to Alterations
<input type="checkbox"/> Accessory Dwelling Units and Accessory Structures for One and Two Family Dwellings <b>new!</b>	<input type="checkbox"/> State Laws Enforced by Building Departments	<input type="checkbox"/> Plan Check for Solar Photovoltaic and Energy Storage Systems	<input type="checkbox"/> Inspection for Solar Photovoltaic and Energy Storage Systems
<input type="checkbox"/> Safety Assessment Program: Evaluator Training	<input type="checkbox"/> 2019 California Energy Code: Residential Submittal Requirements (AM Half Day) <b>new!</b>	<input type="checkbox"/> Swimming Pools and Spas <b>new!</b>	<input type="checkbox"/> Tenant Improvements for Building Department Staff <b>new!</b>
<input type="checkbox"/> 2019 California Energy Code: Accessory Dwelling Units (PM Half Day) <b>new!</b>	<input type="checkbox"/> 2019 California Energy Code: Accessory Dwelling Units (PM Half Day) <b>new!</b>	<input type="checkbox"/> Swimming Pools and Spas <b>new!</b>	<input type="checkbox"/> Tenant Improvements for Building Department Staff <b>new!</b>
<input type="checkbox"/> How to Recognize and Avoid Common Errors and Oversights of Fire Protection System Inspections <b>new!</b>	<input type="checkbox"/> Understanding Wildfire Mitigation, Response and Recovery <b>new!</b>	<input type="checkbox"/> 2019 California Electrical Code: Residential and Commercial Inspection Procedures <b>new!</b>	<input type="checkbox"/> Combination Inspection of Commercial Structures <b>new!</b>
<input type="checkbox"/> 2019 California Plumbing Code: Inspection Fundamentals (AM Half Day) <b>new!</b>	<input type="checkbox"/> Code Compliance for Existing Residential Buildings <b>new!</b>	<input type="checkbox"/> Residential Plan Review <b>new!</b>	<input type="checkbox"/> Advanced Overview for Permit Technicians <b>new!</b>
<input type="checkbox"/> 2019 California Mechanical Code: Inspection Fundamentals (PM Half Day) <b>new!</b>			

CALBO Training Institute (CTI) is pleased to present our 2020-2021 valuable offerings of our Education Weeks throughout California:

**October 19-22, 2020**  
**December 14-17, 2020**  
**January 25-28, 2021**

**Ontario**  
**Newport Beach**  
**San Ramon**

# General Information

## Registration

Registration is available in half-day, full-day, and full-week enrollment. The registration form must accompany full payment, purchase order, or credit card information. Payment for registration should be received by registration deadline. You can register in the following ways:



**Online:** [www.calbo.org](http://www.calbo.org)



**Email:** [info@calbo.org](mailto:info@calbo.org)



**Mail:**

**California Building Officials**  
 1022 G Street | Sacramento, CA 95814



**Registration Deadlines:**

**Ontario:** Tuesday, October 6, 2020  
**Newport Beach:** Tuesday, December 1, 2020  
**San Ramon:** Thursday, January 14, 2021

## Late Registration

Registration forms received after the registration deadline will require onsite registration. Late registrations must be submitted onsite at the CALBO Registration Booth and are accepted on a "space available" basis only.

## Meals

Each full-day registration includes morning and afternoon refreshments with lunch.

## Fees

REGISTRATION TYPE	CALBO MEMBERS	NON-MEMBERS
Full Week (4 full-day courses, same person)	\$645	\$830
Full-Day	\$195	\$250
One Half-Day	\$140	\$165
Two Half-Days (same day, same person)	\$195	\$250

## Class Materials

Attendees are provided with professional written materials to supplement audio/visual and verbal instruction.

## Special Needs Policy

The CALBO Office 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. All registrants who submit a special dietary request will receive a special lunch ticket on-site at the event.

## Cancellation Policy

Cancellations received 7 days prior to the first day of the event will be refunded, minus a 25% processing fee. Refund requests must be received in writing. Cancellations received less than 7 days prior to the first day of the event will not be refunded, and registrants will be responsible for full payment. No-shows will not be refunded.

## Certificate of Attendance

A certificate of attendance will be available at the conclusion of each course to registrants who attend the entire course. No exceptions will be made. Each certificate of attendance lists the course title, course date, course location, course Continuing Education Units (CEUs), ICC Preferred Provider Program course number, and AIA Learning Units (LUs), if applicable. All courses are approved by the ICC Preferred Provider Program. Please contact CALBO for a complete list of courses approved by the American Institute of Architects (AIA).

## Transfer Policy

Registrations may be transferred to another individual or Education Week venue if request is made at least 7 days prior to the first day of the event. All transfer requests or registration changes are not guaranteed and at the discretion of CALBO staff. Please contact the CALBO Office as soon as possible regarding all registration changes.

## 2020-2021 Hotel Information

### DoubleTree by Hilton Hotel Ontario Airport

222 North Vineyard Avenue | Ontario, CA 91764

**Reservation Number:** 1-800-222-8733 or 909-937-0900

**CALBO Room Rate:** \$129.00+tax

**Reservation Deadline:** Friday, September 18, 2020\*

**Parking Information:** Complimentary day and overnight self-parking.

### Newport Beach Marriott

900 Newport Center Drive | Newport Beach, CA 92660

**Reservation Number:** 1-877-622-3056 or 949-640-4000

**CALBO Room Rate:** \$169.00+tax

**Reservation Deadline:** Monday, November 2, 2020\*

**Parking Information:** Complimentary day self-parking.

Overnight self-parking is \$15.00 per vehicle, per day.

### San Ramon Marriott

2600 Bishop Drive | San Ramon, CA 94588

**Reservation Number:** 1-800-228-9290 or 925-867-9200

**CALBO Room Rate:** \$179.00+tax

**Reservation Deadline:** Friday, January 1, 2021\*

**Parking Information:** Complimentary day self-parking.

Overnight self-parking is \$6.00 per vehicle, per day.

\* Or when room block is at capacity



# Monday Courses

October 19, 2020 | December 14, 2020 | January 25, 2021

## 2019 California Building Code: Significant Changes

ICC PP COURSE NO. 20349 | .6 CEUs  
AIA COURSE NO. 5: 2019 (6 LU | HSW)

This course is conducted in a workshop format with the instructor and attendees participating in active discussions of the significant non-structural revisions that assist with the transition to the latest California Building Code (CBC). The course highlights those areas that have been revised from the 2016 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 joint CALBO/ICC publication.

**new!**

## 2019 California Mechanical Code: Inspection Fundamentals

PM Half Day  
ICC PP COURSE NO. 23879 | .3 CEUs  
AIA COURSE NO. 3: 2020 (3 LU)

While many people say, "I know what the code says", they typically do not know where to find the relevant information in the code book. This course covers the mechanical inspection process on residential and commercial projects from first to final inspection, while identifying what should be looked for at each stage to avoid costly and/or burdensome project delays. Rather than an in-depth code review, this course 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 simplified yet systematic approach to mechanical inspection also touches on concurring code considerations, such as Zoning and Energy Code requirements.

**new!**

## 2019 California Plumbing Code: Inspection Fundamentals

AM Half Day  
IACC PP COURSE NO. 23878 | .3 CEUs  
AIA COURSE NO. 2: 2020 (3 LU)

This course consists of a comprehensive overview and a step-by-step process of performing all plumbing inspections. The course covers the basics of the 2019 California Plumbing Code along with code requirements ranging from the underground to the final inspection. This course helps the inspector identify and prioritize plumbing corrections. Inspection fundamentals are also discussed, including both residential and commercial plumbing applications. After the course, attendees will have more confidence while performing inspections on waste, vent, water and gas systems. In addition, inspectors will be more familiar with the plumbing code and where to locate specific code sections.

## 2019 CBC Chapter 11A: Privately-Funded Multi-Family Dwelling Accessibility

ICC PP COURSE NO. 22612 | .6 CEUs  
AIA COURSE NO. 35: 2019 (6 LU | HSW)

This course provides attendees with a working understanding of the adaptable housing requirements for privately-funded multi-family dwellings in California. The course covers selected scoping and technical provisions with an emphasis



on understanding the practical applicability of the requirements. Discussion and lecture assists users of the code with inspections and plan reviews of multi-family dwelling unit construction. The course meets the following continuing educational requirements: (1) HSC requirements for building department personnel, (2) BPC requirements for CA Licensed Architects, (3) AIA CES HSW Learning Units for AIA members, (4) Title 21 requirements for Certified Access.

**new!**

## Accessory Dwelling Units and Accessory Structures for One and Two Family Dwellings

ICC PP COURSE NO. 23877 | .6 CEUs  
AIA COURSE NO. 1: 2020 (6 LU | HSW)

This course reviews the conventional construction requirements for attached and detached accessory structures, such as accessory dwelling units (second unit dwellings) (ADUs) or garages and sheds. Building officials, building inspectors, permit technicians and plans examiners are encouraged to attend the course to become familiar with the mandatory requirements of California Law related to ADU's and how to quickly perform a plan review and what to look for in the field to ensure code compliance. Attendees also learn about the prescriptive structural requirements of the California Residential Code (CRC), including the braced wall provisions and also the non-structural requirements included in both the CRC and California Government Code 65852.2.

**new!**

## How to Recognize and Avoid Common Errors and Oversights of Fire Protection System Inspections

ICC PP COURSE NO. 23883 | .6 CEUs  
AIA COURSE NO. 7: 2020 (6 LU | HSW)

This course is designed for individuals of any experience level in the building-safety and fire industry who are involved with or want to know more about fire protection system inspections. Seasoned inspectors and those who have just begun this type of inspection are both encouraged to attend. Common errors and oversights during such inspections are discussed in great detail, but more importantly, attendees learn the impact of improper installations, especially in the event of an activation. To utilize the course time effectively, the course concentrates on the big ticket items and frequent omissions during inspections. Case studies and videos of non-compliance acceptance tests are part of the course as well. This course benefits all levels of experiences in the public and private sector equally, such as building and fire officials, architects, engineers and contractors.

# Monday CONTINUED

2020-2021 CALBO EDUCATION WEEKS

## Monday Courses

October 19, 2020 | December 14, 2020 | January 25, 2021

### Safety Assessment Program: Evaluator Training

ICC PP COURSE NO. 1495 | .6 CEUs  
AIA COURSE NO. 31: 2017 (6 LU | HSW)

The SAP Evaluator Training is designed by Governor's Office of Emergency Services (Cal OES) to train civil engineers, architects, and certified building inspectors to perform field evaluations of buildings and other infrastructure for damage. SAP Evaluators learn how to assess buildings, facilities and systems to determine the safety for continued use and safe occupancy or restricted use. Attendees also learn about how to rate the safety significance of damaged buildings. The course provides detailed instruction on required forms, placards and the evaluation procedures for all post-disaster buildings (including residences and mobile homes). Course materials are prepared by Cal OES.

## Who plans the Education Weeks?



The CALBO Training Institute starts planning courses ten months before the start of the Education Weeks. It consists of nine appointed commissioners representing different backgrounds and professional experiences within the Building-Safety Community across California.

Learn more at [www.calbo.org](http://www.calbo.org).

2020-2021 CALBO EDUCATION WEEKS

## Tuesday Courses

October 20, 2020 | December 15, 2020 | January 26, 2021

# Tuesdays

**new!**

### 2019 California Energy Code: Residential Submittal Requirements

AM Half Day

ICC PP COURSE NO. 23906 | .3 CEUs  
AIA COURSE NO. 12: 2020 (3 LU)

This course provides an overview of what to expect and verify at permitting for residential newly constructed buildings, additions and alterations complying under the 2019 Energy Code. The course covers the new 2019 requirements, focusing on the applicable compliance forms, how compliance should be articulated on plans and registration requirements. Compliance via the prescriptive and performance approach is covered, including new photovoltaic system requirements, increased envelope requirements, HVAC changes, battery storage options and more. This course also provides background on the changes within the new code. The course objective is to simplify verification and enforcement of the 2019 Energy Code requirements for residential projects during the permit application stage.

**new!**

### 2019 California Energy Code: Accessory Dwelling Units

PM Half Day

ICC PP COURSE NO. 23907 | .3 CEUs  
AIA COURSE NO. 13: 2020 (3 LU)

This course provides an overview of the 2019 Energy Code and how it applies to Accessory Dwelling Units (ADUs). The course covers the Energy Code's classification of different types of ADUs, including newly constructed ADUs, conversions of existing structures and alterations. It also covers how the requirements vary depending on the classification and size of construction. The course also covers how requirements have changed related to whole building ventilation and ADUs, envelope requirements and more. Frequently asked questions and topics will be covered to help clarify the intent of the Energy Code and its applicability to ADUs. The course objective is to simplify verification and enforcement of the requirements of the 2019 Energy Code for ADUs and highlight the items of highest value for verification purposes.



# Tuesday Courses

October 20, 2020 | December 15, 2020 | January 26, 2021

## 2019 California Residential Code: Significant Changes

ICC PP COURSE NO. 20355 | .6 CEUs  
AIA COURSE NO. 12: 2019 (6 LU | HSW)

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 2016 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 joint CALBO/ICC publication.

## 2019 CBC Chapter 11B Accessibility in Public Buildings, Public Accommodations and Commercial Buildings: History, Use and Updates

ICC PP COURSE NO. 20357 | .6 CEUs  
AIA COURSE NO. 13: 2019 (6 LU | HSW)

This course provides attendees with a working understanding of the disabled-access provisions contained in the 2019 California Building Code, presenting on selected administrative, scoping and updated technical requirements. Supporting documents (ASTM, ANSI, Guidelines, Best Practices, etc.), tools of the trade, and inspection techniques are explored throughout the course. Local jurisdictional staff (building department, public works, parks and recreations, etc.), architects, designers, contractors, and business owners/managers are encouraged to attend. The course meets the following continuing educational requirements: (1) HSC requirements for building department personnel, (2) BPC requirements for CA Licensed Architects, (3) AIA CES HSW Learning Units for AIA members, (4) Title 21 requirements for Certified Access Specialist (CASp).

# Tuesdays CONTINUED

**new!**

## Code Compliance for Existing Residential Buildings

ICC PP COURSE NO. 23880 | .6 CEUs  
AIA COURSE NO. 4: 2020 (6 LU | HSW)

Local jurisdictions are required to administer and enforce minimum standards for all existing residential buildings. This course provides attendees with an understanding of the State Housing Law Regulations contained in Title 25, the State Housing Law contained in the California Health and Safety Code and the corresponding minimum requirements in the California Building Standards Code (Title 24) for various types of dwelling units. Attendees learn to effectively identify and communicate code deficiencies to customers, as well as develop solutions based on building code fundamentals. Attendees also develop an awareness of other housing related state health and safety mandates and agency authorities to help provide appropriate responses and referrals. This course is useful for building inspectors, code enforcement officers, experienced permit technicians and other building-safety professionals.

**new!**

## Understanding Wildfire Mitigation, Response and Recovery

ICC PP COURSE NO. 23884 | .6 CEUs  
AIA COURSE NO. 8: 2020 (6 LU | HSW)

Ten percent of homes in California have a wildfire designation of moderate to extreme risk. This course is intended to assist in identifying your community's fire risk based on the building science to fire propagation and damage to structures. The latest Chapter 7A building code requirements will be discussed for exterior protection of structures and fire code vegetation management requirements intended to mitigate fire damage. This course also covers building department response strategies for plan reviewers, inspectors and counter staff that have been utilized in recent fires to assist in the assessment and rebuilding process. Building-safety professionals interested in learning more about Wildland Urban Interface are encouraged to attend.



## State Laws Enforced by Building Departments

ICC PP COURSE NO. 1494 | .6 CEUs

This course features a newly-updated introduction to the reference publication, State Laws Enforced by Building



Departments, published by CALBO. Attendees learn about state codes used by building departments to have a better understanding of where to look for statutes. Focus remains on the Health and

Safety Code, Government Code, Business and Professions Code and six other state codes for which building departments are responsible. Discussion is provided on state laws that have been a challenge and how to better enforce to ensure compliance.

## How long does it take to develop a CTI course?



This year more than half of Education Week courses are newly developed. The average course development timeline is five to six months from start to finish, including outlines, reviews and revisions.

**Learn more at [www.calbo.org](http://www.calbo.org).**



## Wednesday Courses

October 21, 2020 | December 16, 2020 | January 27, 2021

### 2019 California Building Code: Significant Changes

ICC PP COURSE NO. 20349 | .6 CEUs  
AIA COURSE NO. 5: 2019 (6 LU | HSW)

This course is conducted in a workshop format with the instructor and attendees participating in active discussions of the significant non-structural revisions that assist with the transition to the latest California Building Code (CBC). The course highlights those areas that have been revised from the 2016 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 joint CALBO/ICC publication.

### Plan Check for Solar Photovoltaic and Energy Storage Systems

ICC PP COURSE NO. 19749 | .6 CEUs  
AIA COURSE NO. 1: 2019 (6 LU)

This course covers the elements required to perform plan check of solar photovoltaic (PV) systems, including structural mounting, fire service access and electrical aspects needed for a complete plan submittal. Attendees will be able to recognize the key elements necessary for a complete plan submittal for a solar PV system. A set of guidelines are used as a template for these elements. Attendees learn specific details on what a code-compliant plan includes for residential and small commercial solar PV installations. Energy storage systems (ESS) are also covered as these systems are commonly included with or added to PV systems. As solar PV systems are constantly changing and improving, this course updates enforcement on the latest codes and design trends that impact this dynamic field. ESS are also covered as these systems are incorporated into many PV systems over the next several years.

**new!**

### Swimming Pools and Spas

ICC PP COURSE NO. 23888 | .6 CEUs  
AIA COURSE NO. 11: 2020 (6 LU | HSW)


This course covers the electrical requirements in the California Electrical Code, Article 680, for permanently installed swimming pools, storable swimming pools, spas, hot tubs and fountains. Topics covered include wiring methods, grounding and bonding, lighting and receptacle locations, motors and GFCI requirements. Also, students learn an overview of the plumbing, mechanical and pool barrier requirements. Discussion includes suction fittings and pumps, heaters, luminaires, pool access (fencing, gates, pool covers, and pool alarms) and location of various equipment. This information is essential for both installers and inspectors to ensure life safety in and around these wet locations where the combination of water, electricity and personnel demand a hazard-free experience.

**new!**

### 2019 California Electrical Code: Residential and Commercial Inspection Procedures

ICC PP COURSE NO. 23885 | .6 CEUs  
AIA COURSE NO. 9: 2020 (6 LU | HSW)

This course covers residential and commercial inspection procedures for compliance with the California Electrical Code, Green Code and Energy Code, including but not limited to:



residential-receptacle layout, AFCI, GFCI requirements, required circuits, wiring methods, services, sub-panels and grounding for new and existing installations for inside and outside. Other subjects are

covered, including commercial- wiring methods, wall and t-bar inspections, sizing boxes, box fill, de-rating conductors, expansion fittings (when required), 3-phase for WYE/DELTA panels and transformers. Attendees are provided with examples to assist in learning the subject matter and encouraged to engage in class discussions.

**new!**

### Understanding Load Path: Unraveling the Complicated

ICC PP COURSE NO. 24889 | .6 CEUs  
AIA COURSE NO. 14: 2020 (6 LU | HSW)

The overall strength of a building is a function of all the components—roof, walls, floors, and foundation—working together as a unit. As building layouts and geometry get more complicated, the load path becomes harder to track. This course provides a practical, top-to-bottom overview of the gravity and lateral load path for wood-framed structures and how to apply the simple principals to a more complicated geometry. Topics of discussion include load path continuity, connection design and considerations, and common framing mistakes to look for in the field. The course also includes a discussion of the CRC wall-bracing requirements for wood-framed residential structures and implications of the Title 24 code updates to the overall building structure, including advanced framing and high-performance walls and attics.

**new!**

### Residential Plan Review

ICC PP COURSE NO. 23881 | .6 CEUs  
AIA COURSE NO. 5: 2020 (6 LU)

This course covers the basic requirements that should be found in a set of plans for residential construction, including site plan, floor plan, roof plan, elevations, sections, energy, framing, foundation and detailing. Whether it is a new home, an accessory dwelling unit, a room addition, a patio enclosure or a garage conversion, this course highlights typical issues and special requirements encountered based on the different types of projects. Attendees will learn how information from each of the different trades comes together on the plans. For additions, remodels and conversions, attendees are asked to consider the existing conditions and how the proposed construction affects the existing dwelling or structure. Upon completion of the course, attendees will understand the main concepts of what to look for when performing a residential plan review.

# Thursday Courses

October 22, 2020 | December 17, 2020 | January 28, 2021

## 2019 California Residential Code: Significant Changes

ICC PP COURSE NO. 20355 | .6 CEUs  
AIA COURSE NO. 12: 2019 (6 LU | HSW)

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 2016 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 joint CALBO/ICC publication.

**new!**

## Advanced Overview for Permit Technicians

ICC PP COURSE NO. 23886 | .6 CEUs

This course is designed for experienced permit technicians seeking to elevate their building department knowledge and skills. An overview of state laws and the granting of authority are discussed to give context for the role of building departments in California communities. Attendees gain a more in-depth understanding of how the work of permit



technicians interacts with other departments and agencies and learn basic plan reading skills to ensure complete for plan review and permit issuance. Examples of

over-the-counter type plan review are presented for a better understanding of plan review techniques to assist permit technicians advance their career. After this course, permit technicians will not only know how to improve their work performance, but gain an understanding of how to better prepare for a long-term career in California building departments.

## Applying Accessibility Requirements to Alterations

ICC PP COURSE NO. 19748 | .6 CEUs  
AIA COURSE NO. 2: 2019 (6 LU | HSW)

This course provides an overview of how to apply Chapter 11B to alterations of public accommodations and commercial facilities. The following topics are covered: how the occupancy group affects accessibility, the importance of Chapter 2 definitions, when to use and what are the differences between technical infeasibility and hardship exemptions, when and how to use the state historic building code, ensuring consistency between the project's plans examiner and inspector, and scoping and technical requirements of path of travel upgrades. Attendees are encouraged to ask questions, and examples are discussed throughout the course.

**new!**

## Combination Inspection of Commercial Structures

ICC PP COURSE NO. 23887 | .6 CEUs  
AIA COURSE NO. 10: 2020 (6 LU)

This course is intended to provide building inspectors with common techniques and a fundamental understanding of conducting comprehensive inspections of small commercial buildings. The course discussion includes the preparation, awareness and technical code knowledge to establish a coordinated inspection routine and to perform the basic inspection of structural, electrical, mechanical, plumbing, green, energy and accessibility portions of a building. Inspectors and building-safety professionals of all levels are encouraged to attend.

## Inspection for Solar Photovoltaic and Energy Storage Systems

ICC PP COURSE NO. 20362 | .6 CEUs  
AIA COURSE NO. 19: 2019 (6 LU)

This course covers the elements required to perform field inspections of solar photovoltaic (PV) systems, including observing the structural mounting, fire service access and electrical aspects needed for a code-compliant installation. Attendees learn how to confirm that the submitted plans were properly followed and recognize the common field mistakes that installers make with solar PV systems. A checklist is provided to help guide the inspector through the review process. Attendees learn specific details on what code-compliant field installations include for residential and small commercial solar PV installations. Energy storage systems (ESS) are also covered as these systems are commonly included with or added to PV systems. As solar PV systems are constantly changing and improving, this course updates enforcement on the latest codes and design trends that impact field installation of this equipment.

**new!**

## Tenant Improvements for Building Department Staff

ICC PP COURSE NO. 23882 | .6 CEUs  
AIA COURSE NO. 6: 2020 (6 LU)

This course provides an explanation of the basic requirements of the applicable 2019 California Code of Regulations (Title 24) as they apply to commercial tenant improvement projects. Attendees are provided with practical methods for the plan review of such tenant improvements and a focus on individual systems, such as Electrical, Egress, Disabled Access, Plumbing and Mechanical. This course also provides clarifications on occupancy classifications and construction type requirements for tenant improvements. This course is essential for permit technicians, plan reviewers, inspectors and contractors.

## Have a course idea?

Most courses are developed from a member idea, so don't wait to provide your input. Contact CTI with your ideas!

Learn more at [www.calbo.org](http://www.calbo.org).



## 2020-2021 CALBO Education Weeks Online Registration — Available Now

**new!** Online Portal for easy, faster registration  
at [www.calbo.org](http://www.calbo.org)

# Online Registration

With the new code cycle in full swing, CALBO Training Institute is offering new and updated courses for the technical and professional advancement of the Building-Safety community. More than half of the Education Week courses are new to ensure we provide the training that your department needs, so don't wait to register.

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

### Don't Miss these Online Registration Advantages!

- ▶ Available 24 hours—register anytime, anywhere
- ▶ Three step registration process—average registration takes less than 3 minutes
- ▶ New scroll over feature for course information—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 submitter and individual registrant will receive confirmation email after online submission
- ▶ Ability to pay invoices online using the payment link on each email confirmation

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

- 1 Visit the CALBO Website: [www.calbo.org](http://www.calbo.org).
- 2 Under the "Professional Development" tab, click "CALBO Education Weeks Registration".
- 3 Complete the required fields and select courses(s).



### Questions?



**Email:** [info@calbo.org](mailto:info@calbo.org)



**Phone:** 916.457.1103

# Request a CTI Course

## Can't Attend the Education Weeks?

## Request a CTI Course — in 3 Easy Steps!

### Save Your Jurisdiction Money Raise Money for Your Chapter

1

✓ Select the type of offering your chapter or jurisdiction would like to request.

☐ **OPTION 1 | Requested Course Offering**

**DISCOUNT:** One percent per person (up to 45 people) of the profit refunded.

**CTI PROVIDES:**

- Instructor
- Materials and Handouts
- Presentation
- Marketing
- Maintain AIA & ICC Preferred Provider Attendance Rosters
- Certificates of Attendance

**CHAPTER/JURISDICTION PROVIDES:**

- Minimum of 20 Attendees
- Training Facility
- Equipment
- Attendee Lunch
- Course Moderator

☐ **OPTION 2 | Hosted Course Offering**

**DISCOUNT:** Flat 15% of the profit refunded, regardless of number of students.

**CTI PROVIDES:**

- Instructor
- Materials and Handouts
- Presentation
- Marketing
- Attendee Lunch
- Maintain AIA & ICC Preferred Provider Attendance Rosters
- Certificates of Attendance

**CHAPTER/JURISDICTION PROVIDES:**

- Training Facility
- Equipment
- Course Moderator

☐ **OPTION 3 | Flat Rate Course Offering**

Flat fee of \$2,500 (plus cost of course workbooks - \$15 each) is paid to CALBO. Chapter or Jurisdiction collects all course profits.

**CTI PROVIDES:**

- Instructor
- Materials and Handouts
- Presentation
- Maintain AIA & ICC Preferred Provider Attendance Rosters
- Certificates of Attendance

**CHAPTER/JURISDICTION PROVIDES:**

- Equipment
- Training Facility
- Course Moderator
- Attendee Lunch
- Marketing
- Registration

2

Provide the following information.

CONTACT PERSON

CHAPTER / JURISDICTION

ADDRESS

CITY / STATE / ZIP

PHONE

EMAIL

REQUESTED COURSE(S)

REQUESTED DATE(S)

3

Email your request to Lauren Herman, CALBO Director of Training and Communications, at [lherman@calbo.org](mailto:lherman@calbo.org).



## Become a CALBO Training Institute Instructor and Course Developer!

Are you knowledgeable about a certain topic or passionate about sharing your experience and knowledge with others? The CALBO Training Institute (CTI) is continually looking for new course developers and instructors for its trainings throughout the year. There are opportunities for every skill level. We welcome your contributions!

- Develop speaking and listening skills.
- Learn how to create and implement a course plan.
- Gain one-on-one time with another instructor to review course plans and materials.
- Co-teach with a seasoned instructor to gain hands-on experience in the classroom.
- Utilize your knowledge to become a subject matter expert.

### Application

Please complete the application below and return with your resume to apply as a CTI instructor and/or course developer. Applications are accepted year-round. If you have any questions, please contact Lauren Herman, CALBO Director of Training and Communications, [lherman@calbo.org](mailto:lherman@calbo.org).

FULL NAME

TITLE

JURISDICTION/COMPANY

ADDRESS

CITY STATE ZIP

PHONE

EMAIL

NAME OF SUPERVISOR

SUPERVISOR PHONE

SUPERVISOR EMAIL

Select appropriate box: ☐ CTI Instructor ☐ CTI Course Developer

Please list subject(s) you are interested in teaching or providing course development:

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# Become a CTI Instructor



## Exhibitor & Sponsorship Program Information



**October 19-22, 2020**  
**December 14-17, 2020**  
**January 25-28, 2021**

Ontario  
Newport Beach  
San Ramon

The CALBO Training Institute hosts its Education Weeks throughout the Golden State to provide continuing education for California building departments. These events bring thousands together under one roof for code updates, professional development and networking opportunities. Last year, CTI had its largest Education Week events on record—over 6,000 full-day courses attended.

Dozens of state agencies, organizations and companies participate in the Education Week Exhibitor Program each year. We invite you to be one of them.

## Why participate in the 2020-2021 CALBO Education Week Exhibitor and Sponsorship Program?

- ▶ **Engage face-to-face with building department leaders and staff.**
- ▶ **Recruit new employees from seasoned building department personnel.**
- ▶ **Free advertising in the CALBO News, CALBO's bi-monthly newsletter.**
- ▶ **Showcase your products and services.**
- ▶ **Special discounted exhibiting package for all three Education Weeks.**

## Interested in these opportunities?

Contact:

**Katie Little**

klittle@calbo.org or 916-457-1103

### Special Sponsorship Opportunity!

Don't miss the CALBO Training Institute's newest training endeavor—CTI Education Week Lunch and Learn. This special sponsorship opportunity connects companies and the CALBO community around the latest innovative and progressive topics in building-and-safety. Application is available upon request.





## CALBO Launches the Eighth Year of the Building Officials Leadership Academy!

Seeking to maximize the leadership capabilities of seasoned public safety professionals, in addition to those who seek a future within California's building departments, BOLA provides executive level coursework along with networking opportunities among program peers and mentors to allow each participant the opportunity to utilize the program to its full potential.

The BOLA core curriculum consists of five consistent days of training. In addition, all BOLA participants are required to complete three elective courses offered at the CALBO Education Weeks each year. After a participant successfully completes all BOLA requirements, he or she will be recognized and honored at the CALBO Annual Business Meeting.



### Registration Information



Email: [info@calbo.org](mailto:info@calbo.org)



Phone: 916.457.1103

## Join CALBO for its Annual Conference in Carlsbad this Fall!

October 4-7, 2020

It has been too long since we have been together, and as we all know, nothing takes the place of an in-person meeting. Please join CALBO for a topical three-day annual conference program highlighting the contemporary trends and practices of our profession.

More details and registration available at  
[www.calbo.org](http://www.calbo.org).

Please note, this in-person annual conference takes the place of the April Annual Business Meeting (scheduled for Indian Wells) and the July conference (scheduled for Carlsbad).

We will adhere to all governmental regulations and social distancing guidelines in an effort to bring us together as a profession.

As they say, third time is a charm.

CALIFORNIA  
BUILDING OFFICIALS

2020

# Annual conference



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<b>Amie Brousseau</b>	California Energy Commission
<b>Stoyan Bumbalov</b>	CSG Consultants, Inc.
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<b>Patrick Chew</b>	City of Roseville (Retired)
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