CALBO Training Institute (CTI) Course Directory

Message from CTI

2015-2016 CALBO Membership Form

2016 ABM: San Diego Here We Come!

2015 Education Weeks: General Information San Ramon, CA and Ontario, CA

2015 Education Weeks Course Descriptions

Building Officials Leadership Academy

2015 Education Weeks Event Registration Course Selections

Request a CTI Course

2015-2016 CTI Course Offerings

REGISTER ONLINE  www.calbo.org

ANNUAL TRAINING CATALOGUE

2015-16
Dear CALBO Members,

We are off to a great start this year for training and education. Welcome to the third annual CALBO training catalogue, which will provide you a comprehensive list of classes being offered, information on Education Weeks and Independent Offerings, membership information, and a sneak peak at the 54th CALBO Annual Business Meeting being held in San Diego in 2016.

CALBO has been approved as a Preferred Provider through the International Code Council, so rest assured the classes that you attend will count toward renewing your CEU’s for certification. Please take a look at the course descriptions with special emphasis on the newly developed courses and refreshed material to provide for practical applications and interpretations. We hope to see you all at the upcoming Education Weeks being held in San Ramon and Ontario.

We are very pleased to announce the Building Officials Leadership Academy (BOLA) program has been re-tooled based on recommendations from former graduates and Building Officials. Look for this exclusive offer and the details of the new schedule.

With the changes we have experienced within our departments, we have learned to take on additional responsibilities and expand our knowledge of the entire development process. This is an important factor to our communities to help new opportunities prosper and to help guide applicants through the process. CTI is very proud to offer and expand our knowledge base with the introduction of a brand new Planning class this year. For a look at how the planning process works and how the integration of all the departments is key to the success of growing our communities, please plan on attending this enlightening educational offering.

I want to thank the CTI Commissioners, course developers, and our valued instructors for their hard work and dedication to provide you an inspiring lineup of classes. I would be remiss if I did not also thank the jurisdictions, industry, and consultants for their willingness to support CTI and allowing our team to bring you the finest education experience.

We encourage your participation this year at all CALBO events, and thank you again for your partnership to strengthen CALBO to better serve you - the members. We hope to see all of you this year, and wish you well in 2015.

Sincerely,

Bob Latz
CTI Chair
Building Services Manager, City of Gustine
## 2015 - 2016 CALBO Membership

### Who is eligible:

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*Is available to cities and/or counties in California or any department or division of the state charged with the administration or enforcement of laws and ordinances relating to building construction.*

*Is available to building inspectors, plans examiners, counter technicians and other city/county personnel who are employed by a jurisdiction which holds a Class I membership.*

*Is available to associations, organizations, agencies, firms or individuals with interests in architecture, engineering, building inspection, code enforcement or construction.*

*Is available to individuals employed by a company which holds an Associate membership.*

*Is available to individuals of age 55 or greater who have served at least 5 years as a Class 1 or Technical member.*

### Membership Benefits:

- **CALBO News**, a bi-monthly newsletter which includes information on legislation, statewide job opportunities, and association and state agency news.

- **CALBO.org**, an up-to-date informative website with members-only sites. The website includes news on legislative issues, education announcements, job opportunities, state and regulatory bulletins.

- **Discounts** on the Annual Business Meeting, Education Weeks, training seminars, and publications.

- **Representation** before the Legislature and state regulatory agencies.

- The **opportunity** to serve on policy-making committees representing your peers before state regulatory agencies and the Legislature.

- **Low advertising rates** in CALBO News and on our website.

### Annual Dues Statement: Fiscal Year: April 1, 2015 - March 31, 2016

Please complete the following information exactly as you prefer it to appear in the Membership Directory.

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**INVOICE REQUESTED:** ☐ **CHECK ENCLOSED:** ☐

If paying with a credit card: Mail to address below, fax in to 916.442.3616, or scan and email to: info@calbo.org. Please make checks payable to CALBO and return with completed form to 1022 G Street | Sacramento, CA | 95814. If purchase orders are used, indicate PO# above. Without a PO#, please indicate “invoice requested” above. *Five percent of dues paid are not deductible for federal income tax purposes because they are used for lobbying expenses.*
CALBO’s 54th Annual Business Meeting

will again offer an array of programs, events and training on the most recent code changes and other topics for the professional development of its members. A committee meeting day will also be included in the ABM agenda, offering the opportunity for all CALBO policy committees to meet face-to-face. Special thanks to the ICC San Diego Area Chapter for their willingness to host this wonderful event. We hope to see you in sunny San Diego for this annual tradition that allows the CALBO community to meet and discuss the present and future of our organization!

San Diego, Here We Come!

CALBO’s 54th Annual Business Meeting

Hyatt Regency Mission Bay Spa & Marina
1441 Quivira Road
San Diego, CA 92109
619-224-1234

Sunday March 13, 2016 – Thursday, March 17, 2016

Registration details will be available in Winter 2015
General Information

CALBO Training Institute (CTI) is pleased to continue the tradition of offering two Education Weeks, Northern California and Southern California. The 25th Annual Education Weeks will be held September 14 – 17, 2015 in San Ramon and October 26 – 29, 2015 in Ontario.

Registration

Registration is available in half-day, full-day, and full-week enrollment. (Full week registrations may only be split between two individuals!) The registration form must accompany full payment, purchase order, or credit card information. You can register online at www.calbo.org, or mail the form to the CALBO office at 1022 G Street, Sacramento, CA 95814 or faxed to (916) 442-3616. Payment for registration should be received by registration deadline. The San Ramon registration deadline is Friday, September 4, 2015 and the Ontario registration deadline is Friday, October 16, 2015.

San Ramon Registration Deadline: Friday September 4, 2015
Ontario Registration Deadline: Friday, October 16, 2015

Late Registration

Registration forms received after the registration deadline will have to register onsite. Late registrations must be submitted onsite at the CALBO registration desk and are accepted on a “space available” basis only.

Fees

All registration fees include morning and afternoon refreshment and lunch.

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Class Materials

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

Special Needs

If special accommodations or dietary needs exist, please notify CALBO staff at least 15 days prior to registered session.

Cancellation Policy

Cancellations received up to 7 days prior to the beginning of each session will be refunded, minus a 25% processing fee. Refund requests must be received in writing. Cancellations received less than 7 days prior to the beginning of the session 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.

Certificate of Attendance

It is the policy of CTI that Certificates of Attendance reflect the prescribed number of hours the student has participated in the subject matter. A certificate of attendance will be presented upon the completion of each class for those who attended the entire session. You will not receive credit if you do not attend the entire session.

Hotel Information

San Ramon Marriott
2600 Bishop Drive
San Ramon, CA 94583
Reservation Number: 800-228-9290
CALBO Room Rate: $149.00 +tax
Reservation Cut Off Date: Friday, August 21st
Parking Information: Free day parking is provided to all CALBO attendees

DoubleTree by Hilton Hotel Ontario
222 North Vineyard Avenue
Ontario, CA 91764
Reservation Number: 909-418-4873
CALBO Group Code: CBO
CALBO Room Rate: $90.00 +tax
Reservation Cut Off Date: Monday, October 12th
Parking Information: Free parking, day and overnight, is provided to all CALBO attendees
**The 2013 California Building Code & Its Inter-Relationship with Other Department Regulations**

This full-day new course will explore the provisions of the 2013 California Building Code and its inter-relationship with other jurisdictional department’s regulations. Departments such as Planning and Public Works, just to name two, are important in the approval of projects in all jurisdictions. The CBC’s code provisions and the other sets of jurisdictional regulations can frequently collide if their interface is not understood early in the design process or entitlement stages. Specific examples will be reviewed in a workshop like format. This course is designed for building officials, planners, Public Works staff, plan review examiners, and inspectors.

**Urban & Regional Planning I & II **

*THIS IS A TWO DAY COURSE. REGISTRATION AND ATTENDANCE FOR BOTH DAYS ARE REQUIRED.* This new two-day course is designed for Development Services’ staff, including but not limited to counter technicians, building department staff, department of public works’ staff, and fire prevention staff, for the purpose of providing information and clarification with respect to the significance of land-use planning, function of the planning permit process, and the role of urban planners and policy makers as part of the team in the development review process.

**2013 CBC Chapter 11A: Privately Funded Multi-Family Dwelling Accessibility**

This full-day course will provide attendees a working understanding of the adaptable housing requirements for privately funded multi-family dwellings in California. This course will cover selected scoping and technical provisions with an emphasis on understanding the practical applicability of the requirements. This course has been updated to include the mid-code cycle changes, effective July 1, 2015. This course will meet 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 (CAS).

**Budgeting & Finance for Building Officials**

This full-day course takes an in-depth look at the budgeting process for building departments and will give a building official the tools to properly operate and function in today’s economy. The course will give a hands-on approach to the line item budget. Students will learn methods to justify expenditures and demonstrate how to offset expenditures with the revenues. Focus will also be given to complex issues, such as revenue projections and fee studies, to help recover operating expenses of issuing permits, plan review and building expenses of issuing permits, plan review and building projections and fee studies, to help recover operating also be given to complex issues, such as revenue how to offset expenditures with the revenues. Focus will learn methods to justify expenditures and demonstrate hands-on approach to the line item budget. Students will function in today’s economy. The course will give a building official the tools to properly operate and budgeting process for building departments and will give

**2013 CBC Chapter 11B: Accessibility in Public Buildings, Public Accommodations, Commercial Buildings & Public Housing**

This full-day course will provide attendees a working understanding of the disabled access provisions contained in Chapter 11B, with an emphasis on the interpretations and intent of selected administrative, scoping and technical requirements. This course has been updated to include the mid-code cycle changes, effective July 1, 2015. This course will meet 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 (CAS).

**Accessibility & Public Works**

This full-day course will address accessibility provisions that may be typically public works projects (whether publicly or privately funded) including, but not limited to: streets, on-street parking, sidewalks, curb ramps, traffic control devices, signage, parks, play areas, trails and paths, beaches, swimming pools, shared use paths. This course has been updated to include the mid-code cycle changes, effective July 1, 2015. This course will meet 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 (CAS).

**Disabled Access Case and Statutory Law from a Building Official’s Perspective**

This full-day course explores Disabled Access statutes, regulations and case law associated with Disabled Access from a building official’s perspective. It is intended to give building officials, inspectors, plan reviewers, and permit administrative staff a foundation of knowledge they can use to assist individuals seeking information about disabled access issues in their community. For example, by the end of the seminar participants will be able to answer commonly asked questions associated with civil rights litigation and local government access regulations such as; Is an apartment owner required to make an existing apartment accessible? What kinds of access violations are typically included in civil rights litigation? How has the 9th Circuit defined Equivalent Facilitation? The seminar also covers various Federal Circuit Disabled Access Case Law related to both commercial facilities and housing, and includes other topics covering the relationship of statutes and regulations, the organization of the Court System, who can sue for a civil rights violation, the Fair Housing Act, Architectural Barriers Act, California’s Fair Housing and Employment Act, the American with Disabilities Act, Jesse Unruh Act, the Disabled Persons Act, Construction-Related Accessibility Standards Compliance Act, and other sections of California’s Civil and Health and Safety Code.
Effective Communication

In order to successfully perform your job duties, communication skills are as important as technical skills and knowledge. Truly effective communication goes well beyond the spoken and written word. This full-day course will teach the following: personal safety tips when dealing with angry, stubborn, or otherwise difficult customers; how to encourage voluntary compliance; how to recognize when a conversation may become an argument; the importance of documentation; how to overcome your own communication limitations. In this course, you will gain an understanding of how health, stress, culture, education, and personal experience all play into the communication process along with the strategies that can be used in the office, in the field, and even at home.

Fire-Resistance Rated 101 for Combustible Construction in the IBC

This full-day course examines the behavior of fire inside of structures and the basics of fire resistance rating requirements found in the Chapters 5, 6 and 7 of the 2012 and 2015 IBC. Topics will include the different types of fire resistance rated walls, horizontal assemblies, construction of shaft and stairway enclosures and their continuity and vertical support in large wood structures. Discussion will include practical considerations for several common construction details and the application of fire resistance requirements from many chapters of the IBC, including many State of California amendments. Participants will be exposed to cross laminated timber (CLT), approved in the 2015 IBC, along with CLT fire resistance characteristics and National Design Specification Chapter 16 method of calculation for fire resistance of exposed timber. Pending code change proposals for CLT and Heavy Timber in the 2018 IBC will be examined to help understand the code basis of proposals for taller and larger timber structures.

Building Department 101  new!

This new full-day course explores building departments and the requirements to operate and enforce building regulations. The instructor will lead discussion on the career paths in code enforcement, while obtaining an understanding of the purpose and evolution of codes and the governmental agencies responsible for supporting and enforcing those codes. The intent of the course is to educate attendees of the potential career paths of code enforcement and to create an interest for future employees.

Residential Care Facilities

Residential care facilities in California continue to be one of the most dynamic occupancies in the state. With the rise in transfer dependent care, dementia, and hospice care, residential care facilities continue to increase in prevalence. These facilities continue to evolve in regulation, making consistent application throughout the state difficult. This full-day course was developed with the California State Fire Marshal’s Advisory Committee for Residential Care. Taking into considerations the latest SFM regulatory changes and coupled with the latest Residential Care Facility Handbook developed by the NORCAL Building Standards Committee, this class is intended to assist code officials in the detailed aspects typical during a plan review. Focus will be given to classifying occupancy, transition from a typical multi-family residence or single family residence to a residential care facility, memory care, bedridden clients, construction, exiting considerations, fire protection equipment and systems, and more.

Know Yourself and Understand Others

This full-day course focuses on developing awareness of your behavioral preferences, the preferences of your coworkers, and presents information on how to coordinate individual preferences in the work environment. It also explores the influences that shape our thoughts and presents methods to develop self-awareness that encourages a peaceful work environment. This course is intended for those of us who are required to interact with the public, other agencies, and coworkers on a regular basis. It takes wisdom and heart to notice when we or someone else needs our help and to understand what kind of help is needed. The course centers on learning and practicing awareness, problem solving in the present moment (techniques developed by Eckhart Tolle), and the 5 Agreements (techniques developed by Don Miguel Ruiz). The 5 Agreements are techniques designed to create a peaceful mind and a way of viewing yourself, others, and situations from a uniquely patient and supportive perspective. This course fosters the development of skills associated with interpersonal and problem-solving processes.
The primary focus of this full-day course is to train building inspectors, architects, and civil engineers to perform field evaluations of buildings and other infrastructure for damage and how to rate the safety significance of that damage. This course is also intended to prepare SAP inspectors for disaster assessment and the required documentation. This training is approved by the Federal Department of Homeland Security for homeland security grant funding. It will provide training for local governmental representatives on how to estimate the local needs for Evaluators and other resources that may be needed in response to a local event, how to request the needed resources, how to effectively manage those resources, and how to manage the information gathered by those resources. The basics of the Standardized Emergency Management System (SEMS) and the National Incident Management System (NIMS) will be discussed as well. For those individuals who are already currently certified as either SAP Evaluators or SAP Coordinators, this course will qualify as a renewal course, effectively extending the certification for another 5-year period.

This full-day course simplifies the regulations and narrows down the important issues to the absolute minimum necessary to accomplish proper enforcement of the 2013 Energy Code. The first part of the class is designed for plan checkers with step-by-step instructions on how to plan check the prescriptive method as well as the performance method of compliance. The second part of the class is designed for inspectors with a concise list of items to inspect that are arranged to follow the typical construction phases, such as foundation, rough framing, insulation, drywall and final. The class includes pictures of proper installation techniques that identify the areas of construction requiring inspection and the issues you should know to identify violations easily and effectively. The course also covers additions and alterations, including guidelines on how to deal with the various possible types of alterations and tenant improvements. The class will cover the “Envelope,” the “Mechanical” as well as the “Plumbing” requirements of the Energy Code. There is a separate half-day course for the “Electrical” and “Lighting” requirements of the 2013 Energy Code, which are topics that are extensive enough to be offered in a separate course.

Solar Photovoltaic Systems
This full-day course aids counter technicians, plan checkers, and field inspectors to better understand the intent and changes to the 2013 California Electrical Code Article 690 - Solar Photovoltaic Systems. Discussions will include at least three things you should and should not see on a set of plans or in the field, and the new labeling requirements and illustrations to clarify the numerous changes, including arc fault detection. The class will be interactive with questions encouraged. Details will also be provided on the new requirements of AB2188 and straightforward ways to understand and comply with these new requirements. The new standard electrical plans, with both the comprehensive and simplified versions, will be reviewed. With the ever-changing technology and multitude of new solar products, having a better understanding of the intent of the code and the 2013 changes is a must for those involved with the fastest growing segment of the electrical industry.

Right of Entry in Code Enforcement (½ Day Course)
This new half-day course covers what inspectors and enforcement officers have to obtain to access property and document code violations while maintaining balance with the private property rights afforded to property and business owners. Inspection and enforcement issues related to work done under permit, un-permitted work, zoning and nuisance code violations are the focus of this course along with how local, state, and federal laws affect your ability to gain code compliance.

Marijuana Enforcement Issues (½ Day Course)
This new half-day course covers the evolving area of law that is marijuana cultivation and how it relates to Building Safety and Code Enforcement professionals. Attendees will be educated on the history of marijuana law and aspects of it that are encountered by the Building Safety profession. A review of recent examples of indoor and outdoor cultivation techniques that inspectors may encounter will be presented as well as various local ordinances that jurisdictions have adopted to address these circumstances. Attendees will leave with practical information they can put to use right away as well as being better educated on the current marijuana cultivation landscape and likely future trends.


2013 California Fire Code Overview

This new full-day course will provide participants with extensive, in-depth information about the fire and life safety standards of buildings as they relate to Titles 19 and 24. Topics for discussion include types of construction, laws and regulations pertaining to fire protection and detection systems, interior finishes, fire protection systems, occupancy classifications, special fire related building components, and more. Please note: All attendees must bring the California Fire Code 2013 edition published by International Code Council (ICC) to the course.

Residential Energy Standards

This full-day course intends to simplify the regulations and narrow down the important issues to the absolute minimum necessary to accomplish proper enforcement of the 2013 Energy Code. The first part of the class is designed for plan checkers with step-by-step instructions on how to plan check the performance method as well as the prescriptive method of compliance. The second part of the class is designed for inspectors with a concise list of items to inspect that are arranged to follow the typical construction phases, such as foundation, rough framing, insulation, drywall and final. The course includes pictures of proper installation techniques that identify the areas of construction requiring inspection and the issues you should know to identify violations easily and effectively.

Lighting Compliance for Non-Residential Occupancies Based on the 2013 California Energy Code (½ Day Course)

This half-day course provides a concise and simplified understanding of the lighting and electrical requirements of the 2013 Energy Efficiency Standards, Title-24 Part 6. The class will cover the basics of lighting compliance and the devices that are commonly encountered in design and construction. New buildings, tenant improvements, additions and alterations are included in the review of Energy Code requirements and the compliance and calculation forms. This class has practical and immediate application for architects, design engineers, plan check staff, building and electrical inspectors and contractors.

Means of Egress

This full-day course covers the basic exiting requirements of the 2013 CBC Chapter 10. The general requirements for the three part means of egress system will be discussed. Course participants will be provided with practical exercises during the class as well. Participants should bring the 2013 CBC Part 2, Volume 1. This is a must take course for learning more about egress as well as permit technicians thinking about advancing, commercial designers, architects, building and fire plan reviewers, and inspectors.

Electrical Compliance Issues for Building & Code Officials Based on the 2013 California Electrical Code (½ Day Course)

As building and code officials, we have all encountered the “uncertainties” of electrical systems with existing-noncomplying situations, incorporating new and existing circuits, and variations of utility supply. The uncertainties can lead to misapplication of code, a reluctant acceptance of contractor work, or project delays. This half-day course focuses directly on issues that the code official needs to be aware for the anticipation and avoidance of issues of the electrical trade along with an understanding of major compliance items of the California Electrical Code. The building and code official without an electrical speciality will immediately benefit with case study discussions and simplified examples.

Calculation Requirements Based on the 2013 California Electrical Code

This expanded full-day course now includes worksheet examples for class participants to directly apply calculation requirements of the California Electrical Code. Attendees will work through several examples of calculations typically encountered on residential and commercial occupancies. Subjects include fundamentals of electrical systems, conductor ampacity sizing, conductor ampacity deration, conduit and raceway sizing, transformer protection, motor overcurrent and overload protection, motor locked-rotor disconnect sizing, and electrical load calculations. Electrical design engineers, plan check staff, building and electrical inspectors, electricians and contractors will find immediate application from the practical examples and worksheets.

Permit Technician 101 & 102 (new!)

THIS IS A TWO DAY COURSE. REGISTRATION AND ATTENDANCE FOR BOTH DAYS ARE REQUIRED.

This two-day course is intended for permit technicians of all levels, senior Inspectors aspiring to be building officials, entry level building Inspectors wanting to understand building department operations, and design professionals looking to better understand the challenges of the building department staff. This course will provide essential information in the areas of code administration and history, legal aspects, customer service, basic plan review, inspection process, zoning requirements, permit fee calculations, basic occupancy and construction types, basic means of egress, and dealing with difficult customers. Please bring a calculator, 2012 IBC, 2012 International Zoning Code, Legal Aspects of Code Administration, and Basic Code Enforcement.
The California Building Officials’ leadership program, Building Officials Leadership Academy (BOLA), is designed to maximize the leadership capabilities of seasoned public safety professionals, in addition to those who seek a future within California’s building departments.

The Executive level coursework of the BOLA program is intensive, and program participants are expected to spend a great deal of the time studying and collaborating with each other on the course materials. To assist and encourage completion, each participant is assigned a mentor who will provide advice and guidance - serving as an overall resource. In addition, BOLA participants will become an active part of the network of program peers who can utilize each other's talents and strengths.

Each year the BOLA program is offered with limited space on a first come, first served basis. The BOLA core curriculum consists of five consistent days of training, including four courses in conjunction with the CALBO Leadership and Advocacy Day at the CALBO Office in Sacramento, California. These courses, specifically designed for the BOLA program, include Creating an Administrative Foundation for a Successful Building Department, State Laws Enforced by Building Departments, Persuasive Communication, and Critical Thinking for Today and Tomorrow.

In addition, all BOLA students are required to complete three elective courses offered at the CALBO Education Weeks each year. There is no time completion requirement for the electives, but all BOLA students must attend the weeklong core curriculum program in Sacramento. There are NO make-up opportunities for missed core curriculum courses.

When students successfully complete all BOLA requirements, he or she will be recognized and honored at the CALBO Annual Business Meeting.

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It is with great pleasure that we announce the BOLA Class of 2015-2016.

We applaud you for taking the next step in your career!

Tom Burnette  
Denise Fukaye  
Johnny Goetz  
Nick Henderson  
Curtis Johnson  
Farida Khan  
Gene Koshiol  
Joyce Liu  
Kevin Lundborg  
James Mangino  
Dan Mather  
Michael McGee  
Roxanna Recinos-Serna  
Randy Slusser  
Joe Strasser

El Dorado County  
City of Malibu  
Town of Truckee  
City of Moreno Valley  
Butte County  
City of Roseville  
City of El Cajon  
City of San Jose  
Town of Windsor  
City of Roseville  
County of Fresno  
Sutter County  
City of Dublin  
Charles Abbott and Associates, Inc.  
CSG Consultants, Inc.
General information.

Please enter the information 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 or fax with credit card payment information.

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

Register and select program.

CALBO Member: ☐ Yes ☐ No  I will attend: ☐ San Ramon ☐ Ontario

Program Selections

<table>
<thead>
<tr>
<th>Program Selection</th>
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<tr>
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<td>$635</td>
<td>$820</td>
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<td>Full Day</td>
<td>$185</td>
<td>$240</td>
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<td>One Half-Day</td>
<td>$130</td>
<td>$155</td>
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<tr>
<td>Two Half-Days - Same Day, Same Person</td>
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**VEGETARIAN MEALS:** ☐ Please check here if you prefer vegetarian meals.

Select method of payment.

CREDIT CARD: **VISA or Mastercard ONLY**

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<th>CREDIT CARD NUMBER</th>
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**REGISTRATION DEADLINES:**

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<th>SEND FORM WITH PAYMENT TO:</th>
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<tr>
<td>San Ramon: California Building Officials</td>
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<tr>
<td>Friday September 4, 2015 1022 G Street</td>
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<tr>
<td>Ontario: Sacramento, CA 95814</td>
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<tr>
<td>Friday October 16, 2015</td>
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**Cancellations received up to 7 days prior to the beginning of each session will be refunded, minus a 25% processing fee. Refund requests must be received in writing. Cancellations received less than 7 days prior to the beginning of the session 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.**
## 2015 Education Week Schedule

### COURSE TIMES
- **Full Day:** 8:00 am - 3:30 pm
- **Morning Courses:** 8:00 am – 11:15 am
- **Afternoon Courses:** 12:15 pm – 3:30 pm

### Course Selections

<table>
<thead>
<tr>
<th>COURSE TIMES</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
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<td><strong>Full Day:</strong></td>
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<td><strong>Afternoon:</strong></td>
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<td><strong>San Ramon</strong></td>
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<td>September 16</td>
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<td><strong>Ontario</strong></td>
<td>October 26</td>
<td>October 27</td>
<td>October 28</td>
<td>October 29</td>
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<td>Permit Technician 101</td>
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<td>Residential Energy Standards</td>
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<td>2013 CBC Chapter 11A: Privately Funded Multi-Family Dwelling Assembly</td>
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<td>Safety Assessment Program: Evaluator and Coordinator Training</td>
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<td>Effective Communication</td>
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<td>AM: Right of Entry in Code Enforcement (Half Day)</td>
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<td>PM: Electrical Compliance Issues for Building and Code Officials Based on the 2013 California Electrical Code (Half Day)</td>
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<td>PM: Marijuana Enforcement Issues (Half Day)</td>
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<td>Accessibility and Public Works</td>
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<td>Disabled Access Case and Statutory Law from a Building Official's Perspective</td>
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<td>Budgeting and Finance for Building Officials</td>
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<td>Residential Care Facilities</td>
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<td>2013 California Fire Code Overview</td>
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<td>Fire-Resistance Rated 101 for Combustible Construction in the IBC</td>
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Please select classes based on your attendance at the San Ramon or Ontario conference.
Select the type of offering interests your jurisdiction or company.

**Requested Offering**
A jurisdiction or chapter requests and provides the participants for a class, and no promotion or advertising is required.

**CTI PROVIDES:**
- Instructor
- Materials/Handouts
- Moderator

**CHAPTER/JURISDICTION PROVIDES:**
- Minimum of 20 Attendees
- Location/Equipment
- Lunch

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

**FUNDRAISING EXAMPLE:**
- 20 participants = 20% of profit, 35 participants = 35% of profit

In Office Training Example: 20 participants = 20% discount after expenses

**Hosted Offering**
A jurisdiction, firm or chapter requests a class where they provide the facility and equipment; CTI does the rest!

**CTI PROVIDES:**
- Instructor & Moderator
- Materials/Handouts
- Advertising
- Lunch

**CHAPTER/JURISDICTION PROVIDES:**
- Training Facility
- Equipment

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

**Flat Rate Offering - $2,500 (plus cost of books)**
A jurisdiction, firm or chapter requests a class where they provide registration, facility, equipment, lunch, and marketing; CTI will provide the instructor, presentation and books ($15/book). The chapter pays the flat rate to CALBO and collects all course profits.

Complete the following form.

**CONTACT PERSON:**

**JURISDICTION:**

**ADDRESS:**

**CITY / STATE / ZIP:**

**PHONE:**

**FAX:**

**EMAIL:**

**PROPOSED DATE(S):**

**COURSE(S) OF INTEREST:**

Please fax your request to 916.442.3616 or contact Lauren Herman at 916-457-1103 x101 or lherman@calbo.org.
2013 California Building Code
This full-day course is conducted in a workshop format with the lecturer and attendees participating in active discussions of the significant non-structural revisions that will help with the transition to the latest CA CBC. The course highlights those areas that have been revised from the 2010 CBC with other code topics welcomed for discussion. The course is appropriate for experienced and not-so-experienced users of the CBC. It is recommended for Building Officials, Architects, Designers, Engineers, Plans Examiners, Field Inspectors and Counter Technicians. Joint CALBO/ICC publication will be available with this course.

2013 California Electrical Code
This full-day course is designed to help clarify the numerous changes to the 2013 California Electrical Code. The discussions will center on the background and intent of the significant changes of the code cycle. Also illustrated will be substantial changes to the equipotential bonding grid for swimming pools and the new requirements for bonding communication circuits will also be discussed.

2013 California Residential Code
This full-day course examines the significant revisions to the 2013 CRC. The course is conducted in a workshop format with the lecturer and attendees participating in active discussions of the revisions. The course highlights those areas that have been revised from the 2010 CRC with other code topics always welcomed. It is recommended for Building Officials, Architects, Designers, Home Builders, Plans Examiners, Field Inspectors and Counter Technicians. Joint CALBO/ICC publication will be available with this course.

2013 California Green Code (CALGreen)
This full-day course is designed for those involved with compliance and enforcement of the new 2013 California Green Building Standards Code (CALGreen). It explores challenges and issues faced by inspectors, plans examiners, contractors and designers concerning construction, inspection, documentation and other enforcement issues. Strategies for compliance will also be discussed. This class will also address residential and commercial requirements.

State Laws Enforced by Building Departments
This full-day course features a new introduction in the reference book of State Laws published by CALBO focusing on state codes used by building departments for a better understanding where to look for statutes. Focus remains on the Health and Safety Code, Government Code, Business and Professions Code and six other State Codes with which building departments have responsibilities. There will also be a discussion on State Laws that have been a challenge and how to better enforce to ensure compliance.

2013 CBC Chapter 11A: Privately Funded Multi-Family Dwelling Accessibility
This full-day course provides a working understanding of the adaptable housing requirements for privately funded multi-family dwellings. It will cover selected scoping and technical provisions with an emphasis on understanding the practical applicability of the requirements. Updated to include the mid-code cycle changes effective July 1, 2015, the following continuing educational requirements will be met: (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 (CAS).

2013 CBC Chapter 11B: Accessibility in Public Buildings, Public Accommodations, Commercial Buildings & Public Housing
This full-day course provides a working understanding of the disabled access provisions in Chapter 11B, emphasizing the interpretations and intent of selected administrative, scoping and technical requirements. This course has been updated to include the mid-code cycle changes, effective July 1, 2015. This course will meet 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 (CAS).

Non-Residential Energy Standards for Envelope, Mechanical & Plumbing
This full-day course simplifies the regulations and narrows down the important issues to the absolute minimum necessary to accomplish proper enforcement of the 2013 Energy Code. The first part of the class is designed for plan checkers with step-by-step instructions on how to plan check the prescriptive method as well as the performance method of compliance. The second part of the class is designed for inspectors with a concise list of items to inspect that are arranged to follow the typical construction phases, such as foundation, rough framing, insulation, drywall and final. The class includes pictures of proper installation techniques that identify the areas of construction requiring inspection and the issues you should know to identify violations easily and effectively. The course also covers additions and alterations, including guidelines on how to deal with the various possible types of alterations and tenant improvements. The class will cover the “Envelope,” the “Mechanical” as well as the “Plumbing” requirements of the Energy Code. There is a separate half-day course for the “Electrical” and “Lighting” requirements of the 2013 Energy Code, which are topics that are extensive enough to be offered in a separate course.
Accessibility & Public Works

This full-day course will address accessibility provisions that may be typically public works projects (whether publicly or privately funded) including, but not limited to: streets, on-street parking, sidewalks, curb ramps, traffic control devices, signage, parks, play areas, trails and paths, beaches, swimming pools, shared use paths. This course has been updated to include the mid-code cycle changes, effective July 1, 2015. This course will meet 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 (CAS)

2013 Essentials of California Mechanical Code

Providing a fundamental understanding of the California Mechanical Code (CMC), this full-day course offers participants an opportunity to learn the basics of the 2013 CMC. This course focuses on the most important topics covered in the code, such as furnace installation, air conditioning theory and application, ducts and smoke/fire dampers, commercial kitchen exhaust systems, product conveying systems, machinery rooms, sizing venting systems using Chapter 8 tables, as well as some important changes that have been made in this new edition. At the end of the seminar participants will apply their knowledge by working on practical exercises and determine if systems and components are installed according to the code.

Residential Sprinkler Systems

This full-day course is on Residential Fire Sprinklers, based on the 2013 Edition of the NFPA 13D, reviewing the process from application to final field approval. During the plan review process we will focus on the critical path starting from the water purveyor to a three dimensional viewpoint while reviewing plans. The Inspections process involves a review of the minimum code requirements and understanding the core issues required in having a functional system prior to occupancy. Both plan reviewers and inspectors will garner valuable knowledge in understanding the entire approval process from start to finish. Please bring a calculator for part of the plan review process.

Budgeting & Finance for Building Officials

This full-day course takes an in-depth look at the budgeting process for building departments and will give a building official the tools to properly operate and function in today’s economy. This course will give a hands-on approach to the line item budget. Students will learn methods to justify expenditures and demonstrate how to offset expenditures with the revenues. Focus will also be given to complex issues, such as revenue projections and fee studies, to help recover operating expenses of issuing permits, plan review and building inspections.

Effective Communication

In order to successfully perform your job duties, communication skills are as important as technical skills and knowledge. Truly effective communication goes well beyond the spoken and written word. This full-day course will teach the following: personal safety tips when dealing with angry, stubborn, or otherwise difficult customers; how to encourage voluntary compliance; how to recognize when a conversation may become an argument; the importance of documentation; how to overcome your own communication limitations. In this course, you will gain an understanding of how health, stress, culture, education, and personal experience all play into the communication process along with the strategies that can be used in the office, in the field, and even at home.
Fire-Resistance Rated 101 for Combustible Construction in the IBC

This full-day course examines the behavior of fire inside of structures and the basics of fire resistance rating requirements found in the Chapters 5, 6 and 7 of the 2012 and 2015 IBC. Topics will include the different types of fire resistance rated walls, horizontal assemblies, construction of shaft and stairway enclosures and their continuity and vertical support in large wood structures. Discussion will include practical considerations for several common construction details and the application of fire resistance requirements from many chapters of the IBC, including many State of California amendments. Participants will be exposed to cross laminated timber (CLT), approved in the 2015 IBC, along with CLT fire resistance characteristics and National Design Specification Chapter 16 method of calculation for fire resistance of exposed timber. Pending code change proposals for CLT and Heavy Timber in the 2018 IBC will be examined to help understand the code basis of proposals for taller and larger timber structures.

Electrical Vehicle Charging Systems

Learn about the code and listing requirements for electrical vehicle charging systems, as required in Article 625 of California Electrical Code. Information will be provided on key installation concerns, and the scope and limitations of the listed products used to charge electrical vehicles. This course will cover how to find information necessary to plan check and inspect installations. An overview of electrical vehicle charging system policies will be provided.

Solar Photovoltaic Systems

This full-day course aids counter technicians, plan checkers, and field inspectors to better understand the intent and changes to the 2013 California Electrical Code Article 690 - Solar Photovoltaic Systems. Discussions will include at least three things you should and should not see on a set of plans or in the field, and the new labeling requirements and illustrations to clarify the numerous changes, including arc fault detection. The class will be interactive with questions encouraged. Details will also be provided on the new requirements of AB2188 and straightforward ways to understand and comply with these new requirements. The new standard electrical plans, with both the comprehensive and simplified versions, will be reviewed. With the ever-changing technology and multitude of new solar products, having a better understanding of the intent of the code and the 2013 changes is a must for those involved with the fastest growing segment of the electrical industry.

Safety Assessment Program: Evaluator & Coordinator Training

The primary focus of this course is to train Building Inspectors, Architects, and Civil Engineers to perform field evaluations of buildings and other infrastructure for damage and how to rate the safety significance of that damage. This course is also intended to prepare SAP inspectors for disaster assessment and the required documentation. This training is approved by the Federal Department of Homeland Security for homeland security grant funding. It will provide training for local governmental representatives on how to estimate the local needs for Evaluators and other resources that may be needed in response to a local event, how to request the needed resources, how to effectively manage those resources, and how to manage the information gathered by those resources. The basics of the Standardized Emergency Management System (SEMS) and the National Incident Management System (NIMS) will be discussed as well. For those individuals who are already currently certified as either SAP Evaluators or SAP Coordinators, this course will qualify as a renewal course, effectively extending the certification for another 5-year period.

Practical Code Enforcement

This full-day course will cover practical applications for the enforcement of state and local codes. Topics covered will include the proper type of forms necessary and how/when to use them, effective enforcement strategies using both administrative and criminal processes, working with outside entities such as your agency attorney, police/fire officials and the CSLB, and how to structure appeals processes related to code enforcement actions. This course is ideal for anyone who administers a building code or nuisance code program, enforcement officers or officials, administrative staff working in support of building department operations and building inspectors who want to know when and how to “get tough” on violators.

Residential Care Facilities

Residential care facilities in California continue to be one of the most dynamic occupancies in the state. With the rise in transfer dependent care, dementia, and hospice care, residential care facilities continue to increase in prevalence. These facilities continue to evolve in regulation, making consistent application throughout the state difficult. This full-day course was developed with the California State Fire Marshal’s Advisory Committee for Residential Care. Taking into considerations the latest SFM regulatory changes and coupled with the latest Residential Care Facility Handbook developed by the NORCAL Building Standards Committee, this class is intended to assist code officials in the detailed aspects typical during a plan review. Focus will be given to classifying occupancy, transition from a typical multi-family residence or single family residence to a residential care facility, memory care, bedridden clients, construction, exiting considerations, fire protection equipment and systems, and more.
Know Yourself & Understand Others
This full-day course focuses on developing awareness of your behavioral preferences, the preferences of your coworkers, and presents information on how to coordinate individual preferences in the work environment. It also explores the influences that shape our thoughts and presents methods to develop self-awareness encouraging a peaceful work environment. This course is intended for those required to interact with the public, other agencies, and coworkers on a regular basis. The course centers on learning and practicing awareness, problem solving in the present moment (techniques developed by Eckhart Tolle), and the 5 Agreements (techniques developed by Don Miguel Ruiz). The 5 Agreements are techniques designed to create a peaceful mind and a way of viewing yourself, others, and situations from a uniquely patient and supportive perspective.

Seismic & Wind Design Considerations for Wood-Framed Structures
The overall strength of a building is a function of all of the components—roof, walls, floors, and foundation—working together as a unit. This full-day course will provide a top to bottom overview of lateral design for wood framed structures. Topics of discussion include lessons learned from natural disasters, load path continuity, the 2013 California Residential Code Wall Bracing Provisions, updates to the 2013 California Building Code, Shear Wall Design Alternatives and APA research.

Residential Plan Check
This full-day course is designed to review the steps for performing residential plan review, with a focus on new items for compliance with the 2014 California Codes. Also discussed are critical items missed on plans and difficult to resolve in the field. Class is presented in an interactive manner utilizing plans and other innovative learning methods.

Residential Inspection
This full-day class is designed to provide students with a logical approach to residential field inspections with a focus on new items for compliance with the 2014 California Codes and a review of typical items missed by builders and inspectors. Class is presented in an interactive manner utilizing props, smart phones and other innovative learning methods.

Means of Egress (new)
Basic exiting requirements of the 2013 CBC Chapter 10 is covered in this full day course as well as the general requirements for the three part means of egress system. Participants will be provided with practical exercises and should bring the 2013 CBC Part 2, Volume 1. A must take course for anyone interested in learning more about egress as well as permit technicians thinking about advancing, commercial designers, architects, building and fire plan reviewers, and inspectors.

Building Commissioning
This full-day course covers the basic steps in getting the needed documents together and the process for the field inspection staff to complete the building department’s requirements of commissioning new structures. There will be an emphasis on the proper forms for the field inspection staff to review and complete. Intended for Plans Examiners and Building Inspectors.

2013 California Building Code & California Residential Code
Wood Provisions
This full-day course covers detailed structural requirements for wood frame structures including related referenced standards and variety of topics related to wood framing design and inspection. Course is designed for permit technicians, plan reviewers, inspection staff and other design professionals interested to learn or improve knowledge of CBC and CRC 2013 wood provisions. Topics covered include: conventional wood framing, load path detailing in wood, wood shear walls, manufactured wood products and connection detailing. The seminar will highlight major plan review and inspection issues and discuss the new trends in wood construction.

Residential Energy Standards
This full-day course simplifies the regulations and narrows down the important issues to the absolute minimum necessary for proper enforcement of the 2013 Energy Code. The first part of the class is designed for plan checkers with step-by-step instructions on how to plan check the performance method as well as the prescriptive method of compliance. The second part is designed for inspectors with a concise list of items to inspect that are arranged to follow the typical construction phases, such as foundation, rough framing, insulation, drywall and final. The course includes pictures of proper installation techniques that identify the areas of construction requiring inspection and the issues you should know to identify violations easily and effectively.

Calculation Requirements Based on the 2013 California Electrical Code (new)
This expanded full-day course now includes worksheet examples for class participants to directly apply calculation requirements of the California Electrical Code. Attendees will work through several examples of calculations typically encountered on residential and commercial occupancies. Subjects include fundamentals of electrical systems, conductor ampacity sizing, conductor ampacity deration, conduit and raceway sizing, transformer protection, motor overcurrent and overload protection, motor locked-rotor disconnect sizing, and electrical load calculations. Electrical design engineers, plan check staff, building and electrical inspectors, electricians and contractors will find immediate application from the practical examples and worksheets.
Non-Residential Plan Check

This full-day course provides a step-by-step approach to performing a plan review of a moderately-sized commercial project. The class covers the following portions of the review: (1) code analysis (i.e. occupancy classification, type of construction, location on the property, allowable areas & heights, etc.), (2) fire & life safety (fire resistance, fire protection, exiting, etc.), (3) structural & special inspections, (4) mechanical & plumbing, and (5) electrical. Due to time constraints this class will not cover accessibility, or CALGreen requirements.

Lighting Compliance for Non-Residential Occupancies Based on the 2013 California Energy Code (1/2 Day Course)

This half-day course provides a concise and simplified understanding of the lighting and electrical requirements of the 2013 Energy Efficiency Standards, Title-24 Part 6. The class will cover the basics of lighting compliance and the devices that are commonly encountered in design and construction. New buildings, tenant improvements, additions and alterations are included in the review of Energy Code requirements and the compliance and calculation forms. This class has practical and immediate application for architects, design engineers, plan check staff, building and electrical inspectors and contractors.

Electrical Compliance Issues for Building & Code Officials Based on the 2013 California Electrical Code (½ Day Course)

As building and code officials, we have all encountered the “uncertainties” of electrical systems with existing-nocomplying situations, incorporating new and existing circuits, and variations of utility supply. The uncertainties can lead to misapplication of code, a reluctant acceptance of contractor work, or project delays. This half-day course focuses directly on issues of which the code official needs to be aware for the anticipation and avoidance of issues of the electrical trade along with an understanding of major compliance items of the CA Electrical Code. The building and code official without an electrical specialty will immediately benefit with case study discussions and simplified examples.

Urban & Regional Planning I & II (new!)

THIS IS A TWO DAY COURSE. REGISTRATION AND ATTENDANCE FOR BOTH DAYS ARE REQUIRED.

This new two-day course is designed for Development Services’ staff, including but not limited to counter technicians, building department staff, department of public works’ staff, and fire prevention staff, for the purpose of providing information and clarification to the significance of land-use planning, function of the planning permit process, and the role of urban planners and policy makers as part of the team in the development review process.

The 2013 California Building Code & Its Inter-Relationship with Other Department Regulations (new!)

This new full-day course will explore the provisions of the 2013 California Building Code and it’s inter-relationship with other jurisdictional department’s regulations. Departments such as Planning and Public Works, just to name two, are important in the approval of projects in all jurisdictions. The CBC’s code provisions and the other sets of jurisdictional regulations can frequently collide if their interface is not understood early in the design process or entitlement stages. Specific examples will be reviewed in a workshop-like format. This course is designed for building officials, planners, Public Works staff, plan review examiners, and inspectors.

Disabled Access Case & Statutory Law from a Building Official’s Perspective (new!)

This full-day course explores Disabled Access statutes, regulations and case law associated with Disabled Access from a building official’s perspective. It is intended to give building officials, inspectors, plan reviewers, and permit administrative staff a foundation of knowledge they can use to assist individuals seeking information about disabled access issues in their community. For example, by the end of the seminar participants will be able to answer commonly asked questions associated with civil rights litigation and local government access regulations such as: Is an apartment owner required to make an existing apartment accessible? What kinds of access violations are typically included in civil rights litigation? How has the 9th Circuit defined Equivalent Facilitation? The seminar also covers various Federal Circuit Disabled Access Case Law related to both commercial facilities and housing, and includes other topics covering the relationship of statutes and regulations, the organization of the Court System, who can sue for a civil rights violation, the Fair Housing Act, Architectural Barriers Act, California’s Fair Housing and Employment Act, the American with Disabilities Act, Jesse Unruh Act, the Disabled Persons Act, Construction-Related Accessibility Standards Compliance Act, and other sections of California’s Civil and Health and Safety Code.
Right of Entry in Code Enforcement (½ Day Course)
This new half-day course covers what inspectors and enforcement officers have to obtain to access property and document code violations while maintaining balance with the private property rights afforded to property and business owners. Inspection and enforcement issues related to work done under permit, un-permitted work, zoning and nuisance code violations are the focus of this course along with how local, state, and federal laws affect your ability to gain code compliance.

Marijuana Enforcement Issues (½ Day Course)
This new half-day course covers the evolving area of law that is marijuana cultivation and how it relates to Building Safety and Code Enforcement professionals. Attendees will be educated on the history of marijuana law and the aspects of it encountered by the Building Safety profession. A review of recent examples of indoor and outdoor cultivation techniques that inspectors may encounter will be presented as well as various local ordinances that jurisdictions have adopted to address these circumstances. Attendees will leave with practical information they can put to use right away as well as being better educated on the current marijuana cultivation landscape and likely future trends.

Permit Technician 101 & 102
This two-day course is intended for permit technicians of all levels, senior inspectors aspiring to be building officials, entry level building inspectors wanting to understand building department operations, and design professionals looking to better understand the challenges of the building department staff. This course will provide essential information in the areas of code administration and history, legal aspects, customer service, basic plan review, inspection process, zoning requirements, permit fee calculations, basic occupancy and construction types, basic means of egress, and dealing with difficult customers. Please bring a calculator, 2012 IBC, 2012 International Zoning Code, Legal Aspects of Code Administration, and Basic Code Enforcement.

Building Department 101
This new full-day course explores building departments and the requirements to operate and enforce building regulations. The instructor will lead discussion on the career paths in code enforcement, while obtaining an understanding of the purpose and evolution of codes and the governmental agencies responsible for supporting and enforcing those codes. The intent of the course is to educate attendees of the potential career paths of Code Enforcement and to create an interest for future employees.

2013 California Fire Code Overview
This new full-day course will provide participants with extensive, in-depth information about the fire and life safety standards of buildings as they relate to Titles 19 and 24. Topics for discussion include types of construction, laws and regulations pertaining to fire protection and detection systems, interior finishes, fire protection systems, occupancy classifications, special fire related building components, and more. Please note: All attendees must bring the California Fire Code 2013 edition published by International Code Council (ICC).

2013 Essentials of the California Plumbing Code
This full-day course will provide a fundamental understanding of the new California Plumbing Code (CPC). Each chapter is covered in an easy-to-understand way that supplies the “need to know” information required to successfully understand and apply the provisions of that chapter. This seminar will include examples covering sizing plumbing systems, such as drainage and venting, water, gas and roof rainwater drainage systems. At the end of the seminar participants will be able to apply their knowledge by working on practical exercises and determine if systems and components are installed according to the code.
Thank You
To All
2015-2016
CTI Instructors

Paul Armstrong
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Chris Gale
Doug Hensel
Ray Iverson
Dan Kaiser
Bob Latz
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City of Roseville
The American Wood Council
VCA Code
City of Vacaville
City of Sebastopol
City of Santa Monica
City of Manteca
The Central County Fire Department