

Register by October 9
for Best Selection



October 23 - 27, 2017
Arizona Golf Resort
Mesa, Arizona





FALL 2017 SCHEDULE

MONDAY, OCT 23	TUESDAY, OCT 24	WEDNESDAY, OCT 25	THURSDAY, OCT 26	FRIDAY, OCT 27
SESSION 101 Extreme Buildings II <i>Steve Thomas</i>	SESSION 201 Tenant Improvements <i>Steve Thomas</i>	SESSION 301 IBC Building Areas, Fire Areas & Mixed Occupancies <i>Steve Thomas</i>	SESSION 401 IBC Advanced Means of Egress <i>Steve Thomas</i>	SESSION 501 Multi-Family Construction <i>Gary Goodell</i>
SESSION 102 Emerging Trends: Tiny Houses, Recycled Buildings And Building Products <i>Thomas Meyers</i>	SESSION 202 MEP for Beginners <i>Adam Sessions</i>	SESSION 302/402 IRC Electrical Inspections <i>Adam Sessions/Mike Coldiron</i>		SESSION 502 Inspection Skills/Legal Aspects/ Conflict Resolution <i>Pat Headington/Mike Coldiron</i>
SESSION 103 Plan Reviewing Residential Fire Sprinkler Systems <i>Patrick Chew</i>	SESSION 203 Inspections of Residential Fire Sprinkler Systems <i>Patrick Chew</i>	SESSION 303/403 IRC & IECC Plan Review Workshop <i>Sharon Bonesteel/Steve White</i>		SESSION 503 Energy Storage Safety Latest Updates <i>Sharon Bonesteel</i>
SESSION 104/204 IBC Commercial Plan Review <i>Gary Goodell</i>		SESSION 304 So You Want to be a Building Official? <i>Steve Burger</i>	SESSION 404 Mechanical Code – Hoods and Hazards <i>Dave Zellner</i>	SESSION 504 Installation & Inspections Manufactured Housing <i>Jim Lang</i>
SESSION 105 Fire Door Systems <i>David Dodge</i>	SESSION 205 Forensic Engineering <i>Brian Juedes</i>	SESSION 305 Public Speaking: Projecting Confidence <i>Beth Chepelsky</i>	SESSION 405 Special Inspection Program Based on the IBC <i>Michael L Savage</i>	SESSION 505 Grounding and Bonding <i>Michael L Savage</i>
SESSION 106/SESSION 206 The Complete Permit Technician <i>Steve Burger</i>		SESSION 306 Front Counter Plan Review <i>Mary Dickson</i>	SESSION 406 From the Ground Up! <i>Mary Dickson</i>	SESSION 506 Interviewing Skills and Mock Panel <i>Elaine Noble/Don Brown</i>
SESSION 107 Residential Plan Review <i>Stephen Dudley</i>	SESSION 207 NEC Photovoltaic Plan Review <i>Joe Sacchi, IAEI</i>	SESSION 307 NEC Photovoltaic Inspections <i>Joe Sacchi, IAEI</i>	SESSION 407 Building & Fire Official Working Together <i>Chris Young</i>	SESSION 507 Houses that Work <i>Daran Wastchak, DRW</i>
SESSION 108 Games People Play – Code Enforcement Game Theory <i>Dan Anderson, CELA</i>	SESSION 208A Homeland Security <i>Tammy B – CELA</i>	SESSION 308A Dealing with Different, Diverse And Difficult People <i>Gail Bosgieter, CELA</i>	SESSION 408 IPMC/IZC Certification Review <i>Gregory Arrington, CELA</i>	SESSION 508 ADA for New Construction <i>Tom Barrs</i>
	SESSION 208B Communication, Collaboration & Education with HOA's <i>Paige Holton, CELA</i>	SESSION 308B Spanish in the Field <i>Victor Martinez/Lupe Laborin Romero CELA</i>		

Extreme Buildings II**CEU's .7****Session 101**

Continues from where Extreme Buildings I ended, but continues its focus on very large and unusual building plan reviews. The discussion will address the review and inspections of alternate designs and performance based design. The class addresses the true intent of the code versus the prescriptive language of the code. It encourages the student to look outside the box when evaluating unusual conditions or projects. The ICC Performance Code will be reviewed as part of this class. Although not widely adopted, this code provides a method to deal with unusual conditions. It also describes the true intent of the International Codes to assist in evaluating performance based design.

Materials: *Handouts may be available for downloading.*

Experience Level: All**Instructor:** Steve Thomas, CCC

****NEW CLASS** - Emerging Trends: Tiny Houses, Recycled Buildings, and Building Products** **CEU's: .7** **Session 102**

Discussion includes regulatory hurdles with Tiny Houses, including new Tiny House Appendix for 2018 IRC. The building products portion primarily discusses the alarming trend toward substandard product evaluations that are increasingly placing Code Officials at risk of being sued. Alternate approvals are THE one source of liability for Code Officials when the product fails. The recycled buildings portion will look at repurposed items used mainly to construct residential houses.

Materials: *Handouts may be available for downloading.*

Experience Level: All**Instructor:** Thomas Meyers, Building Intuition, LLC

****NEW CLASS** - Residential Fire Sprinklers – Plan Review** **CEU's: .7** **Session 103**

This is a residential fire sprinkler plan review class based on the 2013 Edition of NFPA 13D. Changes to the 2016 Edition will be noted when appropriate as well as amendments located in the International Fire & Residential Codes, 2015 Edition. Participants will also jointly review a sprinkler plan set for installation compliance. The purpose of this class will be to focus on some of the big ticket items. This class would benefit building and fire officials, plans examiners, inspectors, design professionals, contractors, and the construction industry.

Materials: *Handouts may be available for downloading.*

Experience Level: All**Instructor:** Patrick Chew, City of Roseville

2015 IBC Commercial Plan Review – Two Day Class **CEU's: 1.4** **Session 104/204**

The first day will focus on the building code portion of reviews based on the IBC; and the second day will focus on the plumbing, mechanical and electrical portion. This class will provide students with formats, process and understanding of how to conduct a commercial plan review.

Materials: *Handouts will be available for downloading.*

Experience Level: All**Instructor:** Gary Goodell, CCC

****NEW CLASS** - Fire Door Systems** **CEU's: .7** **Session 105**

Understanding the IBC with emphasis on Chapters 3 – 10. There will be review of the Fire and Life Safety Codes that drive the opening protective applications such as Elevator Separation, Exit Access Separation and Vertical Opening Separation.

Materials: *Handouts may be available for downloading.*

Experience Level: All**Instructor:** Victoria Rios, McKeon Door Company
David Dodge, McKeon Door Company

The Complete Permit Technician – Two Day Class**CEU's 1.4****Session 106/206**

This 2-day course is intended to 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.

Materials: *Handouts will be available for downloading. Students are to bring a calculator, 2015 IBC, 2015 International Zoning Code, Legal Aspects of Code Administration and Basic Code Enforcement.*

Experience Level: All**Instructor:** Steve Burger, City of Folsom**Residential Plan Review****CEU's: .7****Session 107**

This class will focus on the plan review of a single family residence for compliance with the 2012 IRC. The review of life safety, structural, mechanical, plumbing and electrical components will be included.

Materials: *Handouts will be provided by the Instructor. Bring the 2012 IRC.*

Experience Level: All**Instructor:** Stephen Dudley, City of Glendale****NEW CLASS** - Games People Play: Code Enforcement and Game Theory****CEU's: .7****Session 108**

This class is specifically aimed at the games people play when contacted by Code Enforcement. It will introduce you to the emerging science known as Game Theory, and help you to categorize resistance at the door. You will learn common strategies used by residents (consciously or unconsciously), the four game elements that must be established for strategic advantage, why flexibility is not always a good strategy, the importance of the "First Mover Advantage" and how to maintain it; How to identify what game you are in and some strategies to change the game when it's not to your advantage.

Materials: *Handouts will be provided by the Instructor*

Experience Level: All**Instructors:** Daniel Anderson, CELA**TUESDAY, OCTOBER 24, 2017****Tenant Improvements****CEU's: .7****Session 201**

Identifies IBC provisions applicable to the design and construction of tenant space improvements. The discussion addresses the three most common types of uses: business, mercantile and assembly. It emphasizes options available in the code for gaining compliance. Discussion includes occupancy separations and fire areas, type of construction features, fire-resistance-rated construction, interior finish materials, fire protection features, means of egress components and means of egress design

Materials: *Handouts will be available for downloading. Bring the 2015 IBC*

Experience Level: All**Instructor:** Steve Thomas, CCC****NEW CLASS** - MEP for Beginners****CEU's: .7****Session 202**

The class is designed to provide the student with a basic knowledge of the most common MEP (mechanical, electrical, plumbing) code requirements for one and two family dwellings. Real life examples of code requirements will be reviewed as well as the practical application of code requirements. The class will be interactive and students are encouraged to participate.

Materials: *Handouts will be available for downloading. Bring the 2012 IRC.*

Experience Level: All**Instructor:** Adam Sessions, Shums Coda Associates

****NEW CLASS** - Residential Fire Sprinklers - Inspections CEU's: .7 Session 203**



This class will cover obstruction rules, minimum installation requirements and the tricks of the trades during inspections of residential fire sprinkler systems. Compliance will be based on the 2013 Edition of NFPA 13D. However, changes to the 2016 Edition will be noted when appropriate as well as amendments found in the International Fire & Residential Codes, 2015 Edition. The purpose of this class will be to focus on some of the big ticket items during inspections and the importance of performing rough-in inspections. This class would benefit building and fire officials, plans examiners, inspectors, design professionals, contractors, and the construction industry.

Materials: *Handouts may be available for downloading.*

Experience Level: All

Instructor: *Patrick Chew, City of Roseville*

****NEW CLASS** - Forensic Engineering CEU's: .7 Session 205**



This class will discuss forensic engineering investigations and studies from residential construction from foundation to framing and everything in between.

Materials: *Handouts may be available for downloading.*

Experience Level: All

Instructor: *Brian Juedes, Felten Group*

NEC Photovoltaic Plan Review CEU's: .7 Session 207



This one day seminar presents detailed information on IBC, IFC, and NEC requirements for PV installations. Basic PV module manufacture and operation, PV installation requirements and PV plan review calculations are presented in an interactive classroom environment.

Materials: *Handouts will be provided by the Instructor. Bring the 2014 NEC*



Experience Level: All

Instructor: *Joe Sacchi, City of Peoria, IAEI*

****NEW CLASS** - Homeland Security - ½ Day Class CEU's: .35 Session 208A**



Drop houses are often an intermediary point in the smuggling of immigrants who are not legally permitted to enter the United States. The drop houses are usually rented properties where coyotes, or human smugglers, stash immigrants while awaiting payments. These properties can range from actual houses or apartments and are not limited to any one geographic area of the state. Learn how to be aware of these types of properties.

Materials: *Handouts will be provided by the Instructor.*

Experience Level: All

Instructor: *Tammy Breitzke, Homeland Security*

****NEW CLASS** - Communication, Collaboration and Education with HOA's - ½ Day Class CEU's: .35 Session 208B**



A community association within your jurisdiction is a business, a nonprofit corporation governed by the declaration of CC&Rs, articles of corporation and by-laws. This overview will define HOAs, the governing documents, organization structure and rights and responsibilities of the board of directors and homeowners. We will also take a look on how your organization can communicate and collaborate with your respective HOAs. Additionally, we will explain each of the community association bills pending (if legislature is still in session) or passed in the 2017 legislative session.

Materials: *Handouts will be provided by the Instructor.*

Experience Level: All

Instructor: *Paige Holton, CELA*

IBC Building Areas, Fire Areas, & Mixed Occupancies

CEU's: .7

Session 301



Comprehensive discussion of the major compartmentalization concepts of the IBC, focusing on those requirements that deal with building size, sprinkler options and mixed-use buildings. Fire resistance rated construction is also addressed. This class will include topics on allowable areas, area increased, unlimited area buildings, fire area concept and construction, incidental/accessory use areas and separated/non-separated uses.

Materials: *Handouts may be available for downloading.*

Experience Level: All

Instructor: *Steve Thomas, CCC*

IRC Electrical Inspections – Two Day Class

CEU's: 1.4

Session 302/402



This class has been developed to give inspectors, plan reviewers; permit techs., designers and contractors a basic understanding of residential electrical requirements. Its main objective is giving new and experienced personnel a better understanding of code compliant electrical installation. The student will learn basic electrical theory as well as why and what we are actually trying to achieve on a residential project. We will cover electrical requirements for each stage of construction from underground to final.

Materials: *Handouts may be available for downloading. Bring the 2015 IRC.*

Experience Level: All

Instructor: *Adam Sessions, Shums Coda*

Mike Coldiron, City of Kingman Fire

IRC and IECC Plan Review Workshop – Two Day Class

CEU's: 1.4

Session 303/403



This class will address structural, electrical, mechanical, energy, plumbing and logical paths to perform a complete review. Participants will review a complete set of plans in detail chosen to illuminate different compliance paths and challenges will be used.

Materials: *Bring the IRC, IECC, and Residential Plan Checklist.*

Experience Level: All

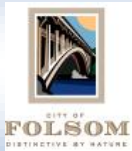
Instructors: *Sharon Bonesteel, SRP*

Steve White, Coconino County

****NEW CLASS** - So You Want to be a Building Official**

CEU's: .7

Session 304



This class will cover the basics of what is required to be a Building Official, including politics, personnel issues, budgeting, image, dealing with the public, professional development, Staffing, dealing with the media, management, ethics and basic legal matters. Class participation will be encouraged.

Materials: *Handouts may be available for downloading.*

Experience Level: All

Instructor: *Steve Burger, City of Folsom*

****NEW CLASS** - Public Speaking: Projecting Confidence**

CEU's: .7

Session 305



In your role, you inform, educate, convey ideas, persuade, and motivate others by using your public speaking skills. Demonstrating confidence is an important factor in your effectiveness in dealing with both internal and external customers. In this engaging workshop, you'll have the opportunity to practice and refine your skills in the areas of eye contact, voice projection, voice clarity, gestures, and movement. You'll also learn techniques to ease your nerves when speaking. These are critical skills that can apply to both your professional and personal life.

Materials: *Handouts will be provided by the Instructor.*

Experience Level: All

Instructor: *Beth Chepelsky, City of Chandler*



This class is designed to provide basic plan review experience for the permit tech to perform reviews at the counter. Topics of discussion will include: basic blueprint reading, scales, construction and inspection terminology. Hands on reviews will include gas pipe sizing, pools and spas, decks and patios, carport, and accessory buildings with a basic understanding of electrical, mechanical and plumbing code requirements for these types of projects.

Materials: Handouts will be available for downloading. Bring the 2009 or 2012 IRC, a calculator, architectural and engineering scales.

Experience Level: All

Instructor: Mary Dickson, City of Litchfield Park

NEC Photovoltaic Inspections

CEU's: .7

Session 307



This seminar is a unique perspective on photovoltaic (PV) installations. You will be presented with a basic overview of PV systems, from manufacturing of photocells and how PV systems work, design, installation considerations and field inspections. This review will cover NEC article 690 and 705 calculations and installation requirements, IBC structural considerations, and IFC installation requirements for a code compliant installation.

Materials: Handouts will be available for downloading.



Experience Level: All

Instructor: Joe Sacchi, City of Peoria, IAEI

****NEW CLASS** - Dealing with Different, Diverse, and Difficult People – ½ Day Class**

CEU's: .35

Session 308A



This course will help you navigate personality differences, diverse agendas and social pressures. This training will give you techniques for dealing with difficult people in the workplace such as co-workers and out in the field. It provides some strategies for getting the most difficult individuals to cooperate and deal with bullies. Knowing how to deal with these types of people will allow you to approach your job with greater confidence.

Materials: Handouts will be provided by the instructor, if any.

Experience Level: All

Instructor: Gail Bosgieter, CELA

****NEW CLASS** - Spanish in the Field – ½ Day Class**

CEU's: .35

Session 308B



This class is designed for Code Compliance Officers who must communicate with Spanish speaking residents, businesses, contractors, and vendors to enforce codes, explain code standards and violations and corrective action. Participants will be taught terms & phrases which are useful in communicating with the Spanish speaking population.

Materials: Handouts will be provided by the instructor, if any.

Experience Level: All

Instructor: Victor Martinez, CELA

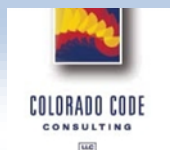
Lupe Laborin Romero, CELA

THURSDAY, OCTOBER 26, 2017

****NEW CLASS** - IBC Advanced Means of Egress**

CEU's: .7

Session 401



An advanced look at the means of egress requirements included in Chapter 10 of the International Building Code. The presentation will include detailed discussions on the design and review of the means of egress in unusual occupancies. Subjects included in the class are malls, assembly occupancies, special egress components, smoke proof enclosures, horizontal exits and exit passageways. Practical examples will be used to illustrate code requirements. This class is designed for those students that have a basic understanding of how the means of egress is designed and reviewed.

Materials: Handouts may be available for downloading.

Experience Level: All

Instructor: Steve Thomas, CCC

****NEW CLASS** - Mechanical Code – Hoods and Hazards** **CEU's: .7** **Session 404**



After this class you will know when to say “What we have here... is a failure to ventilate;” Be able to explain how comfort is code; Have visited the 5 “Hoods” of the hood; Not be exhausted by exhaustion; Know “ducks” from “ducts” and “venting” from venting; Apply combustion and appliance logic; and know the difference between a VRF and VFD.

Materials: Handouts may be available for downloading. Bring the 2006-2015 Mechanical Code and Fuel Gas Code

Experience Level: All

Instructor: Dave Zellner, City of Apache Junction

****NEW CLASS** - Special Inspection Program based on the IBC** **CEU's: .7** **Session 405**



This course will provide instruction on use of the Special Inspection Manual including Chapter I, Special Inspection – providing an overview of project quality assurance through special inspections; Chapter II, General Program Guidelines describes the overall purpose for special inspections and outlines the respective duties and responsibilities of Special Inspectors, Project owners, Designers, Contractors and Building Officials; Chapter III will discuss recommended Special Inspector qualifications.

Materials: Handouts may be available for downloading.

Experience Level: All

Instructor: Michael Savage, Michael Savage LLC

From the Ground Up **CEU's: .7** **Session 406**



A comprehensive study of all phases of residential construction geared toward the Permit Tech. Construction, and inspection processes, and terminology will be covered in depth. Attendees will gain knowledge about the construction of a single family residence, be able to identify various construction materials and have a better understanding of the required inspections.

Materials: Handouts may be available for downloading

Experience Level: All

Instructor: Mary Dickson, City of Litchfield Park

****NEW CLASS** - Building Officials & Fire Officials Working Together** **CEU's: .7** **Session 407**



CANCELLED

This class will help individuals within Building Departments and Fire Prevention Departments work more effectively together in plan review and inspection of buildings within their jurisdiction, so that they can effectively achieve their shared goal: public safety. By effectively working together they can reduce costs and communicate in order to best serve the public. This class references an assessment activity that will show participants that their personality type plays an integral role in how both parties communicate and resolve differences.

Materials: Handouts may be available for downloading

Experience Level: All

Instructor: Chris Young, Coconino County

IPMC/IZC Certification Review **CEU's: .7** **Session 408**



This class is designed as a review course for those interested in taking the Property Maintenance and Housing Inspector certification exam. It will include a review of the 2012 IPMC, the 2012 IRC, 2012 IZC, and the 2002 Legal Aspects.

Materials: Handouts will be provided by the instructor, if any.

Experience Level: All

Instructor: Gregory Arrington, CELA

Multi-Family Construction**CEU's: .7****Session 501**

Overview of the requirements for multi-family dwellings in the International Building Code. Type V-A construction may be the most difficult type of construction to build a structure by. This seminar discusses the design, construction and inspection of Group R-2 occupancies including, building planning, fire-resistive rated construction, fire protection requirements and means of egress requirements.

Materials: Handouts will be available for downloading.

Experience Level: All**Instructor:** Gary Goodell, CCC**Inspection Skills/Legal Aspects/Conflict Resolution****CEU's: .7****Session 502**

This seminar is designed to prepare students who are entering the inspection field with some useful tools to establish credibility and consistency while building effective relationships. This course also examines the legal aspects of inspection as it relates to property owners, occupants, contractors and construction professionals. Course topics include: Introduction to the legal aspects of code administration; offer useful tools to support effective communication; recognize the importance of consistency in decision making; Introduction into property rights and laws; understanding the Inspectors role; and developing credibility.

Materials: Handouts will be available for downloading.

Experience Level: All

Instructor: Pat Headington, Yuma County
Mike Coldiron, City of Kingman Fire

****NEW CLASS** - Energy Storage Safety Updates****CEU's: .7****Session 503**

Addressing the safety issues related to the rapidly changing Energy Storage industry can be a challenge. Understand the different types of Energy Storage, how to classify their potential hazards, and how to apply newly developed standards and code sections. Instructors were participants in the Department of Energy Task Force developing new code revisions and standard modifications to address this subject. Appropriate for plans examiners, inspectors and architects.

Materials: Handouts may be available for downloading.

Experience Level: All**Instructor:** Sharon Bonesteel, SRP**Manufactured Housing - Installation and Inspections****CEU's: .7****Session 504**

This course is designed to inform retailers, installers, local AHJ's and other interested parties, in the manufactured housing and factory-built building industry in Arizona. Emphasis will be placed on the various aspects of installation, including installation plan review and approval, permitting and inspection, the installer insignia program, and the Inter-Governmental Agreement program for administering the State requirements.

Materials: Bring the 2006 & 2012 IRC. If possible, a site visit will be arranged, so dress accordingly.

Experience Level: All**Instructor:** Jim Lang, State of Arizona OMH**Grounding and Bonding****CEU's: .7****Session 505**

Grounding and Bonding encompasses some of the most important and yet least understood elements of the Code. This seminar will focus on understanding how these elements join together to provide a safe environment in which electricity can be used. Class will be based upon the 2014 NEC.

Materials: Handouts may be available for downloading. Bring the NEC and highlighter

Experience Level: All**Instructor:** Michael L. Savage, LLC

****NEW CLASS** - Interviewing Skills & Mock Panel Interviews****CEU's: .7****Session 506**

Do you get nervous at the very thought of an interview? Do you worry about what to say or what to wear? Has it been some time since you interviewed? These questions will be answered. This session will cover how to prepare for the interview. Interviewing for internal positions, nonverbal communication, making a good impression and how to share your experience and skills. Mock panel interviews will take place in the afternoon of this session. All will be part of panel and will also go through a mini mock interview session.

Materials: Handouts will be provided by the instructor, if any.

Experience Level: All

Instructor: Elaine Noble, City of Phoenix
Don Brown, City of Phoenix

****NEW CLASS** - Houses that Work****CEU's: .7****Session 507**

Learn the key building science techniques that are used to build high performing homes that are energy efficient, comfortable and durable. Take a peek inside the home energy rater's toolbox. Learn about the diagnostic tools, such as the blower door, duct blaster and IR camera, that are used to test a home's energy performance. Understand how above code programs are used to guide energy efficient construction practices to deliver homes that are as much as 30% more efficient than standard code homes.

Materials: Handouts may be available for downloading.

Experience Level: All

Instructor: Daran Wastchak, Learning Edge, LLC

ADA for New Construction**CEU's: .7****Session 508**

This class will provide ongoing instruction on utilizing the 2010 ADA Standards in design, plan review and inspection. There will be discussion on the differences between the Federal ADA laws, the Arizona accessibility laws, IBC ANSI, and locally adopted accessibility codes. Review of changes to the ADA since 1991, including major reformatting, revisions to the scoping, philosophical differences, and new areas of compliance, and navigating websites of the Access Board and ADA.gov. Decision making on which documents cover which types of buildings, occupancies and uses. Ongoing coordination between the ADAAG, the IBC, and ANSI A117.1 will be discussed.

Materials: Handouts will be provided by the instructor, if any.

Experience Level: All

Instructor: Tom Barrs, City of Scottsdale

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