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**NEW CLASS**  Session 101/201 – Commercial Plan Review – Two Day Class  
Explains the process of conducting a plan review for small/medium sized commercial projects. It will cover the Building, Plumbing, Mechanical and Electrical requirements for commercial projects. The first day will focus on the building code portion of reviews based on the International Building Code. The second day will focus on the plumbing, mechanical and electrical portion of the review. The class will provide students with formats, process and understanding of how to conduct a commercial plan review.

**Materials:** Handouts may be available for downloading. Bring the 2006 & 2012 IBC.
**Experience Level: All**  
**CEU’s: 1.4**  
**Instructor: Colorado Code Consultants**

**NEW CLASS**  Session 102 - Street Smart – Personal Protection  
Street Smart is a program developed by a retired Fire Marshal to teach fire inspectors, building inspectors, front counter staff and code enforcement inspectors easy to use and easy to remember “soft” techniques from the nationally acclaimed CD T® Personal Protection Program and “hard” techniques from the internationally recognized Commando Krav Maga (CKM) program. This program is NOT to have employees go toe to toe with a violent person. It is to arm them with the tools to be able prevent, and recognize potential violent situations and to be able extricate themselves should the situation suddenly become violent. Emphasis will be placed on personal protection, de-escalation, communication skills, and defensive tactics. Participants will learn Pre-Incident prevention. Scene size up. How to approach a home or vehicle and Arizona laws concerning self-defense.  
Students need to be in general good health and dress in workout attire.

**Materials:** None
**Experience Level: All**  
**CEU’s: 0.7**  
**Instructor: Howard Munding**

**Session 103 - NEC and Health Care Facilities**  
The workshop will provide 2011 NEC general information on health care requirements with an emphasis on the special grounding and bonding requirements located in 517.13(A) and (B), as well as the related grounding requirements for feeders in 517.14. Section 517.17 covering ground fault protection of equipment (GFPE) for critical care areas and life support systems, including the second level of protection required for downstream devices. The requirements in 517.18 and 517.19 in the 2011 NEC, as well as a discussion of the changes for the 2014 NEC, for general care and critical care bed locations. Part III of Article 707 dealing with life safety and critical branch in detail as well as the requirements in Article 700 that are pertinent to health care facilities. In addition, changes to critical branches in the 2014 NEC will be discussed and analyzed.

**Materials:** Handouts may be available for downloading.  
**Experience Level: All**  
**CEU’s: 0.7**  
**Instructor: Mark Ode, UL and Central Arizona IAEI**

**Session 105 – ASHRAE 90.1 ver. 2013**  
This overview course covers the procedures and methodologies in ASHRAE 90.1 – 2010 for demonstrating 2012 IECC compliance for commercial buildings.

**Materials:** Handouts will be available for downloading. Bring the 2012 IECC.
**Experience Level: All**  
**CEU’s: 0.7**  
**Instructor: Sharon Bonesteel, SRP**

**Session 106/206 - 2012 IRC Electrical Inspection - Two Day Class**  
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 2012 IRC.
**Experience Level: All**  
**CEU’s: 1.4**  
**Instructors: Mike Goldiron, City of Kingman  
Adam Sessions, Shums Coda Associates**

**NEW CLASS**  
**Session 107A – Half Day Class – Dealing with Abnormal Behavior**  
This course will cover the methods of dealing with the emotionally disturbed and the mentally ill members of your community. Abnormal Behavior can pose a significant challenge to code enforcement officials, due the erratic and unpredictable manner they often display. You will be taught safety procedures that will include identifying abnormal behavior, officer safety, calming techniques, let’s get physical, identifying threats, intoxication, depression and signs of mental illness.

**Materials:** Handouts may be available for downloading.
**Experience Level: All**  
**CEU’s: .35**  
**Instructor: Gregory Arrington, Town of Youngtown**

**NEW CLASS**  
**Session 107B – Half Day Class – Officer Safety**  
This course will introduce basic officer safety awareness and skills to minimize and or eliminate risk of injury while performing their daily duties and responsibilities. The topics covered will include; introductions, interview stance, the states of mental awareness, four basic categories of threats, aggressive dogs, field contact, weapons and self-defense. The class will also participate in a Mock Case Study.

**Materials:** Handouts may be available for downloading.
**Experience Level: All**  
**CEU’s: .35**  
**Instructor: Gregory Arrington, Town of Youngtown**

**NEW CLASS**  
**Session 108 – International Plumbing Code Fundamentals**  
This one-day class is intended to help students with the plan review and inspections of commercial and residential plumbing projects. General regulations will be discussed and detailed examples will be given of good and bad installations. Additional plumbing requirements for health care facilities and special occupancy types will be reviewed. Water pipe sizing, waste and vent sizing along with the different ways to design venting system will be the main focus of the class. Bring a copy of the IPC.

**Materials:** Handouts will be provided in class.
**Experience Level: All**  
**CEU’s: 0.7**  
**Instructor: Larry Stump**
## 2015 FALL CLASSES

**NEW CLASS**

**Session 109 - The Complete Permit Technician**
This 2-day course is intended to provide essential information in the areas of code administration and history, legal aspects, customer service, plan review, inspection process, zoning requirements, permit fees, calculations, basic occupancy and construction types, basic means of egress and dealing with difficult customers.


Experience Level: All  
CEU’s: 1.4  
Instructor: Steve Burger, City of Folsom

**Tuesday, October 27, 2015**

**Session 202 - 2012 IBC and IRC for Fire Officials**
This seminar explores the major provisions of the International Building Code (IBC) and International Residential Code (IRC) as they relate to fire department personnel. This class is designed to provide an introduction to the new provisions of the code with topics including:
- Review of Occupancy classifications and Special Occupancies
- Understanding building areas and construction types
- Review of Fire-resistant Construction
- Review of Sprinkler provisions
- Changes in the means of egress

Materials: Handouts may be available for downloading. Bring the 2012 IMC and IFGC.

Experience Level: All  
CEU’s: .7  
Instructor: Pat Headington, Yuma County

**Session 203 - Electrical Inspections of Common Hazardous Locations**
This class has been developed to give inspectors, plan reviewers, designers and contractors a basic understanding of electrical requirements for hazardous locations designed, reviewed and inspected every day. Covered in this class will be electrical installation and protection techniques for gas stations and fuel dispensing, paint booths, automotive repair facilities and more. The student will learn basics of classified locations, the correct materials for haz-lc installations and identifying installation methods.

Materials: Handouts may be available for downloading. Bring the 2014 NEC.

Experience Level: All  
CEU’s: .7  
Instructor: Mark Ode, UL and Central Arizona IAEI

**Session 204/304 - 2012 IRC Bracing and Applying the Provisions of Section 602.10**
A one-day class focused on the wall bracing Code provisions for wind and seismic loads per the 2012 IRC. Includes the new Simplified Wall Bracing procedure from R602.12.

Materials: Handouts may be available for downloading. Bring the 2006 & 2012 IRC.

Experience Level: All  
CEU’s: .7  
Instructors: Brian Juedes, P.E., S.E., Felten Group

**Session 205 - Success with the 2015 IECC**
This interactive course focuses on the building science behind the code, while covering critical framing, air sealing, insulation, and HVAC details necessary to achieve compliance with the 2015 IRC/IBC/IECC. Attendees will receive a full color SUCCESS with 2015 IECC Code book that includes technical information sheets and visual guides. This class includes a site walk-through of a framed house.

Materials: Handouts will be provided by instructor.

Experience Level: All  
CEU’s: .7  
Instructor: Dave Treleven  
Class Sponsored by: APS and Advanced Energy

**NEW CLASS**

**Session 207 - IPMC /IRC Review**
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 International Property Maintenance Code, the 2012 International Residential Code, and the 2002 Legal Aspects of Code Administration.

Materials: Handouts may be available for downloading.

Experience Level: All  
CEU’s: .7  
Instructor: Gregory Arrington, Town of Youngtown

**NEW CLASS**

**Session 208 – 2012 International Mechanical Code Fundamentals**
This one-day class is intended to help students with the plan review and inspections of commercial projects. General regulations will be discussed and detailed examples will be given of good and bad installations of ventilation and exhaust systems. IBC code sections that apply to the mechanical code such as smoke barriers will be covered in detail. Gas appliance venting, combustion air and gas pipe sizing from the IFGC are also included in this class.

Materials: Handouts may be available for downloading. Bring the 2012 IMC and IFGC.

Experience Level: All  
CEU’s: .7  
Instructor: Larry Stump International Plumbing Code Fundamentals
## 2015 FALL CLASSES

### Session 301 – 2015 IBC Update
Reviews the changes from the last edition to the current edition of the International Building Code. The background behind many of the changes will be discussed to provide the participant with an understanding of the intent of the changes and how to apply it to their everyday work. Subjects covered in the class will include the code change process, mixed occupancies, atriums, accessible means of egress and many more.

**Experience Level:** All  
**Materials:** Handouts may be available for downloading.  
**Instructor:** Colorado Code Consultants

### Session 303/403 – 2014 NEC Commercial Electrical Inspections - Two Day Class
This class will provide inspectors, plan reviewers, permit techs, designers and contractors a new perspective of basic commercial 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 commercial project. We will cover electrical requirements for each stage of construction from underground to final. A key component of this class is a hands-on experience with real equipment installed correctly and incorrectly and YOU will make the inspection.

**Experience Level:** All  
**Materials:** Handouts may be available for downloading. Bring the 2011 NEC  
**Instructor:** Mark Ptashkin, City of Glendale  
Rocco DeLuca, City of Phoenix  
Central Arizona IAEI

### Session 305 – IECC Compliance Testing Tool Techniques
The class description is pending. An update will be provided.

**Experience Level:** Advanced for BPI & RESNET Raters and Mechanical inspectors  
**Instructor:** Sharon Bonesteel, SRP

### Session 306 – 2015 IRC Update
The 2015 IRC Update class will cover the significant changes to the 2015 International Residential Code. The changes discussed will include the provisions of the building, energy, mechanical, fuel gas, plumbing, and electrical sections of the code. There will be limited discussion in this class regarding changes to the 2009 and 2012 editions of the IRC as questions arise during the class time. This class will be of benefit to contractors, permit technicians, inspectors, and plans examiners of all skill levels. The Significant Changes handbook will be provided for you at an additional $15 when you sign up for this class.

**Experience Level:** All  
**Materials:** Handouts may be available for downloading.  
**Instructor:** Adam Sessions

### Session 307 – International Zoning Code Review
The Zoning Inspector Certification course will cover the enforcement of zoning ordinances which will include permitting, development, enlargement, alteration, repair, movement or removal of structures, occupancy, height restrictions, parking requirement, signage and site landscaping. There will be several mock exams throughout the day.

**Experience Level:** All  
**Instructors:** Gregory Arrington, Town of Youngtown

### Session 308 – Inspection Skills/Legal Aspects/Conflict Resolution
Success as an inspection professional depends on credibility, consistency and communication. 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 of the Inspectors role; Developing credibility.

**Experience Level:** All  
**Instructor:** Pat Headington, Yuma County  
Mike Coldiron, City of Kingman

### Session 309 – From the Ground Up! – Understanding Residential Construction for Permit Techs
A comprehensive study of all phases of residential construction geared toward the Permit Tech. Materials, 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.

**Experience Level:** Beginner  
**Instructor:** Mary Dickson, City of El Mirage
### Session 401 – IBC Means of Egress

This class is a basic overview of the means of egress requirements included in Chapter 10 of the IBC. The presentation will include detailed discussions on the design of the means of egress in buildings. Subjects include in the class are the three parts of the means of egress including occupant loads, egress width, number of exits, travel distance, common path of egress travel and exit enclosures. Practical examples will be used to illustrate code requirements.

**Materials:** Handouts may be available for downloading. Bring the 2006 & 2012 IRC.

**Experience Level:** All

**CEU’s:** .7  
**Instructor:** Colorado Code Consultants

### Session 402 – 2012 NFPA 72 - Fire Alarms

This class will help you understand how building, fire, and life safety codes and how they affect the requirements for fire detection and alarm systems. It will help you determine how NFPA 72 is used to design, install, and maintain a fire detection and alarm system and how the Code is structured. This one-day seminar will describe the general types of initiating devices, and define common terms associated with notification appliances and more.

**Materials:** Handouts may be available for downloading.

**Experience Level:** All  
**CEU’s:** .7  
**Instructor:** Ray Armas  
Central Arizona Chapter IAEI

### Session 403 – ADA for Existing Buildings

Many of the permits issued by building departments each day are for remodeling existing business spaces. Once a tenant moves out, the next tenant has “accessibility obligations” to be complied with when altering the space. The ADA “new construction standards” do not always apply to “alterations”. These alteration criteria will be discussed along with Barrier Removal, Path of Travel obligations, exceptions to the basic rules of the ADA Standards, directional signage, non-complying restrooms, existing site conditions, non-complying pedestrian routes and entrances, and how to resolve these issues.

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

**Experience Level:** All  
**CEU’s:** .7  
**Instructor:** Mary Dickson, CBO, City of El Mirage

### Session 404 – IEC 2015 Plan Review Workshop

IEC 2015 Foundational Science addresses issues related to envelope components including heat transfer, insulation and solar heat gain coefficients. Energy and water conservation methods related to building systems including mechanical systems, lighting systems and plumbing systems are reviewed in relation to the IEC. The benefits of alternate paths of compliance including simulated performance and energy rating indexes will be demonstrated.

This 2012/2015 Workshop provides plan review and design experience with residential projects. Working in teams the students will review multiple sets of plans chosen to illuminate different compliance paths and challenges. Presentations of plan check corrections in an educational manner will develop technical as well as customer service skills. Inspection checklists will be reviewed and alternative compliance documentation will be evaluated for compliance with code.

**Materials:** Handouts may be available for downloading. Additional materials will be handed out in class. Students are urged to bring their NEC Code book and a highlighter.

**Experience Level:** Intermediate  
**CEU’s:** .7  
**Instructor:** Sharon Bonesteel, SRP

### Session 405 – PV Plan Review

This seminar is a unique perspective on photovoltaic (PV) installations. Ralph Garcia, with Bureau Veritas N.A. and the International Association of Electrical Inspectors (IAEI), will present a basic overview of PV systems, from manufacturing of photocells and how PV systems work, to plan review and field inspections. This very complete review will cover NEC plan review calculations and installation requirements, IBC structural considerations, and IFC installation requirements for a code compliant installation.

**Materials:** Handouts will be available for downloading. Additional materials will be handed out in class. Students are urged to bring their NEC Code book and a highlighter.

**Experience Level:** All  
**CEU’s:** .7  
**Instructor:** Ralph Garcia, Bureau Veritas N.A.

Central Arizona IAEI

### Session 406 – Ins and Outs of Code Enforcement Investigations

Code enforcement strategies, funding and methods vary greatly from city to city, town to town, and county to county. Each locality faces its own special concerns, neighborhood problems and community goals. Similarly, some areas are well funded and can afford to be aggressive, while others are hopelessly underfunded, and are fighting daily just to react to incoming complaints. This course will assist you in conducting a thorough investigation, utilizing available tools to you, documentation and preparation for prosecution.

**Materials:** Experience Level: All  
**CEU’s:** .7  
**Instructor:** Gregory Arrington, Town of Youngtown

### Session 407 – Blueprint Reading for Permit Techs

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  
**CEU’s:** .7  
**Instructor:** Mary Dickson, CBO, City of El Mirage
## 2015 FALL CLASSES

### Friday, October 30, 2015

#### Session 501 - Existing Building Codes
This one-day seminar addresses the relationship of the International Existing Building Code to existing buildings. The seminar focuses on the fundamental requirements on an existing structure that undergoes repair work, alteration, renovation activity or construction of an addition, and the effect of a change in the building’s occupancy classification. Discussion will also include the "Performance Compliance Alternatives” method of evaluating a building.

**Materials:** Handouts may be available for downloading.  
**Experience Level:** All  
**CEU’s:** .7  
**Instructor:** Colorado Code Consultants

#### Session 502 - NFPA 101 & 80: Standards for Fire Doors and Inspections - Morning Session
Class will cover the various codes which discuss Egress and Electronic Locking hardware to include Delayed Egress standards, Electronic parts and pieces used for securing or holding doors and allowing egress. Standards for fire rated electronic equipment and what you should look for during an inspection. Standards for plans and permits will be reviewed and discussed.

**NEW CLASS**

**IFC, NFPA Codes: Egress, Electronic Locking Hardware and Fire Codes - Afternoon Session**
Our course will cover ingress and egress requirements, a variety of common electronic locking solutions for multiple door types, including magnetic locks, strikes, rim exit hardware and panic exit devices. It will also cover how fire code applies to these devices and what functional testing processes you should be looking for.

**Materials:** Handouts may be available for downloading.  
**Experience Level:** All  
**CEU’s:** .7  
**Instructor:** Rodger Schmidt, ASSA ABLOY

#### Session 503 – Manufactured Housing Installation Training

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. Attendees will receive a brief history of the industry in Arizona; overview of building design aspects and how they differ from site built; State and Federal requirements for construction and installation oversight. 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:** Handouts will be available for downloading. Bring the 2006 & 2012 IRC.  
**Experience Level:** All  
**CEU’s:** .7  
**Instructor:** Colorado Code Consultants

#### Session 502 – Building Disaster I and How they Change Codes

**NEW CLASS**

This class is an overview of building disasters which have shaped our building and fire codes. Catastrophic events were selected from buildings which have suffered major loss of life or property, both of which impact the local communities as well as national codes. We will also look at how fire testing has progressed due to scientific and technological advancements, evolving from fire experience to fire modeling and prediction. Each building has left its signature on those concerned with fire and building safety by the impact they have had on how we design and protect buildings today. Class is for designers, fire and building code enforcement personnel who would like an historical and practical look at changes in building safety.

**Materials:** Handouts may be available for downloading.  
**Experience Level:** All  
**CEU’s:** .7  
**Instructor:** Tom Barres, City of Scottsdale

#### Session 505A – Manual J/S/D

Understanding the marketing value and energy efficiency savings, doing design and plan review, or the right HVAC with Manuals J, S, and D. Strategies for model plans and getting value for our customers. Practical examples will be shown of calculations and documents, with real life examples of good and bad installations, with extended leaning opportunities.

**Materials:** Handouts may be available for downloading.  
**Experience Level:** All  
**CEU’s:** .35  
**Instructor:** Colorado Code Consultants

#### Session 505B – WRIGHTSOFT HVAC Software Training

This class will provide training on the use of software for right sizing mechanical units. Discussion of appropriate input for climate zones. Review of tricks that may be tried to reach compliance and how to identify them.  

**Experience Level:** All  
**CEU’s:** .35  
**Instructor:** Sharon Bonesteel, SRP  
**Class Sponsored by:** iEngineer and SRP

#### Session 506 – PV Installations and Inspections

This seminar is a unique perspective on photovoltaic (PV) installations. Ralph Garcia, with Bureau Veritas N.A. and the International Association of Electrical Inspectors (IAEI), will present a basic overview of PV systems, from manufacturing of photocells and how PV systems work, design, installation considerations and field inspections. This very complete 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. Additional materials will be handed out in class. Students are urged to bring their NEC Code book and a highlighter.

**Experience Level:** All  
**CEU’s:** .7  
**Instructor:** Ralph Garcia, Bureau Veritas, N.A.  
**Class Sponsored by:** SRP

#### Session 507 – IPMC and Identifying Dilapidated Structures

An overview of the International Property Maintenance Code with a focus on dangerous buildings. The Code Official will be better able to identify and assess the physical conditions of a structure to determine if dangerous and/or unhealthy conditions are present. Abatement processes will be discussed. Several case histories will be presented.

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

**Experience Level:** All  
**CEU’s:** .7  
**Instructor:** Mary Dickson, City of El Mirage
### 2015 FALL CLASSES


**NEW CLASS**

**Session 508 – Electric Fundamentals**
This class is geared specifically for those who need to have a basic understanding or electrical systems and codes. This is an ideal course for Permit Technicians as well inspectors and plans examiners. We focus on understanding the codes and how to apply basic concepts. How to convert amps to watts, load calculations, electric services, branch circuits, feeders in smaller residential and commercial projects. If you must work, inspect, review or assist the public in obtaining permits for electrical systems, this is the class you will want to take. Based upon the 2011 NEC.

Materials: Handouts may be available for downloading.
Experience Level: All  
CEU’s: .7  
Instructor: Mark Ptashkin

**Session 509 – Residential Plan Review**
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  
CEU’s: .7  
Instructor: Stephen Dudley, City of Glendale

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