


Contractor Licensing
in partnership with the
Heart of America Chapter, ICC
present the

2006 Fall Education Seminar

The background of the entire page is a photograph of the Overland Park Convention Center. The building is a large, modern structure with a prominent tower section. The sky is a clear, light blue, suggesting a bright day. The building's facade is light-colored, and the tower has a grid of windows. The text is overlaid on the top half of the image.

November 6, 7, 8, 9 & 10, 2006
Overland Park Convention Center
6000 College Boulevard
Overland Park, Kansas



The Contractor Licensing Program

The Contractor Licensing Program provides code-related and best business practices continuing education for construction contractors, building code enforcement officials, and design professionals.

PURPOSE

Our purpose is to keep the construction industry in Johnson County up to date with code-related education and better business practices. Each session offers outstanding training and job skill development for construction contractors, code enforcement officials and designers, by providing the knowledge needed to determine that the minimum requirements of the International Codes have been met in new or existing construction, or by teaching successful business practices. Attendees will gain valuable hands-on solutions to the most critical challenges in the construction industry, while meeting continuing education requirements for licensing or certification. The Fall Education Seminar offers five full days of education sessions for your career development.

WHO SHOULD ATTEND

Construction contractors, building code enforcement officials, and design professionals are encouraged to attend the program.

FEES

All qualified individuals, i.e., the person with the experience, education, or certification used to license a company, and building code enforcement officials from participating cities may attend free of charge. Heart of America, ICC Chapter members who are active members, and have attended the HOA Annual Business Meeting may attend three days per year, free of charge.

A normal fee of \$20.00 per education hour will be charged for all other participants. All classes have a direct relationship to the International Codes or best business practices and are certified by American Institute of Architects, AIA; and International Association of Continuing Education and Training, IACET. All classes being offered are available to all contractors, building code enforcement officials, and design professionals. Each participant enrolled in a four-hour or eight-hour class will receive information that is related to the class as well as any workbook offered by the instructor.

Materials distributed during class may have proprietary rights and cannot be reproduced and distributed without the express consent of the instructor and /or Contractor Licensing.

YOU MAY REGISTER ON LINE AT <http://contractorlicensing.jocogov.org>

EFFECTIVE JANUARY 1, 2006, ALL CLASS "D" CONTRACTORS MUST MEET THE FOLLOWING REQUIRMENTS: A MINIMUM OF FOUR HOURS CODE-RELATED EDUCATION MUST BE IN THEIR FIELD OF EXPERTISE!

In order to complete education requirements for renewal December 31, 2006, all Class "D" Contractors are required to complete *eight (8) hours of continuing education per license*, four (4) of which *must* be in the contractor's *field of expertise*.

- ◆ "DE" Electrical Contractors must have a minimum of four hours in code-related electrical classes.
- ◆ "DF" Fire Protection Contractors must have a minimum of four hours in fire sprinkler systems or other fire code classes.
- ◆ "DM" Mechanical Contractors must have a minimum of four hours in code-related mechanical classes.
- ◆ "DP" Plumbing Contractors must have a minimum of four hours in code-related plumbing classes.
- ◆ "DR" Roofing Contractors must have a minimum of four hours in code-related roofing classes.



Attendance Requirements

To guarantee that you receive continuing education credit for each class, you must pre-register, complete the sign-in process before you enter the classroom, (re-sign in after lunch, for classes that are eight hours long) and receive your certificate of completion.

- ◆ You **must pre-register** for each class no later than November 3, 2006.
- ◆ All participants are required to sign in before entering the classroom. Without your signature on the sign-in sheet you will not receive CEU credit hours for attending the class.
- ◆ You will be required to present a photo ID when you sign in to enter class.
- ◆ Eight-hour classes require that you sign in before entering in the morning and that you sign in after lunch.
- ◆ Four-hour classes require that you sign in before entering the classroom.
- ◆ Two-hour classes require that you sign in before entering the classroom.
- ◆ One-hour classes require that you sign in before entering the classroom.
- ◆ All education hours are based upon actual clock hours spent in each session.
- ◆ You must remain in class throughout the entire class period.
- ◆ If you are out of the classroom more than 10 minutes per class period, other than during instructor declared breaks, time equal in length to the absence will be deducted from the credit hours you will earn.
- ◆ If you arrive more than 10 minutes after a class is scheduled to start, time equal in length to the absence will be deducted from the credit hours you will earn.
- ◆ If you leave before the end of class you will receive no certificate of completion and the assumption will be that you did not attend all of the class
- ◆ You must retrieve you certificate of completion at the end of class, or make written arrangements with a proctor to guarantee that you receive appropriate credit for attending the entire class. If you do not attend the entire class, you certificate of completion, or the record, may be modified to reflect the actual time spent in class.

REMEMBER TO PRE-REGISTER!
REMEMBER TO SIGN IN BEFORE EACH CLASS!

EDUCATION REQUIREMENTS

The Contractor Licensing Review Board responsibilities include protection of the public welfare. The Contractor Licensing Review Board feel the public will benefit from contractors having a better knowledge of building codes and business practices. The following guidelines have been established regarding continuing education for all qualified individuals:

All qualified individuals, i.e., the person with the experience, education or certification used to license the company, must complete a minimum of eight hours continuing education for each license every calendar year in order to renew the company license on December 31st of each year. Four hours of the required continuing education must be code related (Code or Specialty Code). The other required four hours may be business practice (Elective) courses. The November 2006 and February 2007 seminars will offer a few business practices (Elective) classes. Each session will have a code to identify the classification of the Continuing Education Units (CEU) as follows:

4 Hours Code Credit
4 Hours DE, DF, DM, DP, or DR Specialty Code Credit
4 Hours Elective Credit

Contractors may take as many hours in excess of the required 8 hours as they wish, provided a minimum of 4 hours is recognized as code related education.



Contractor License Review Board

CLRB BOARD MEMBERS

- David Jones, Chairman
Electrical Contractor
- Daniel Tevis, Vice Chairman
Architect/ Engineer
- Jim Jorgenson
Building Official
- Dan Meyer
General Contractor
- Robert Myer
Residential Contractor
- Alan H. Souza
Building Contractor
- Dale Wells, CBO
Building Official
- Michael Jansen
Electrical Contractor
- Jim Morgan
General Public

The Contractor License Review Board

The Contractor Licensing Review Board (CLRB) was established for the purpose of administering the provisions of the Board of County Commissioners' Resolution No. 058-01 to establish and maintain a high standard of integrity, skill, and practice in the various construction fields; to safeguard the life, health, property, and welfare of the public. The nine-member board appointed by the Board of County Commissioners consists of two certified building code officials within Johnson County; one architect or civil engineer; one licensed general contractor or an employee of such contractor; one licensed building contractor or an employee of such contractor; one licensed residential contractor or an employee of such contractor; two licensed electricians, plumber or HVAC contractor or an employee of such contractor; and one representative of the general public.

The CLRB shall examine, license, and renew licenses of duly qualified applicants. It may conduct disciplinary hearings relating to the limitation, suspension, or revocation of any license.

The Education Committee

EDUCATION COMMITTEE MEMBERS

- Stan Parson, Chairman
- Daniel Tevis, Vice-Chair
- Charlie Blair
- Gina Cline
- John Hess
- David Jones
- Jerry Mallory
- Stephen Thompson
- Jay Goss
- Jerry Anderson
- Barry Walthall

The Contractor Licensing Education Committee was established by the Contractor Licensing Review Board to assist in the creation and administration of an Educational Program to provide the construction industry of Johnson County with quality trade and building code educational opportunities.

The Contractor Licensing Program values its commitment to quality in its professional development and is recognized by the International Association for Continuing Education and Training (IACET), and the American Institute of Architects (AIA).



Johnson County
Contractor Licensing
Continuing Education



American Institute of Architects
Contractor Licensing Program,
Johnson County, Kansas is a
registered provider of continuing
education and training for
architects. AIA members can
earn Learning Units (LUs) by
attending programs offered by
Contractor Licensing Program
of Johnson County.



International Association of
Continuing Education Training
Contractor Licensing Program,
Johnson County, Kansas is a
Certified Provider of Continuing
Education Units (CEU).



Monday, November 6, 2006

06-1A Wood Truss Basics For Residential Construction

8:00 AM to 12:00 PM 4 Hours Code Credit

This class, designed for Class C contractors, designers, building inspection staff, and framing sub-contractors, will provide the basics of handling, storage, and installation of wood trusses. Participants will learn the fundamentals of wood truss application:

- ◆ On-site storage requirements for trusses.
- ◆ Proper truss handling and installation techniques.
- ◆ Truss bracing requirements.
- ◆ Do's and don'ts of construction loading.

Attendees will become familiar with the truss document package, how to read and use the truss documents, and the IRC truss documentation requirements.

Instructors: John Vogt, John Hogan

06-1B Commercial Truss Design and Application

1:00 PM to 5:00 PM 4 Hours Code Credit

This class will be of greatest value to Class A and B contractors, designers, building inspection staff, and framing sub-contractors, and will appeal to anyone interested in exploring the versatility of trusses in commercial construction. New products, efficient designs, and applications will be discussed in this fast paced overview of metal plate connected wood trusses, including:

- ◆ Basic principals of truss design and the mechanics of wood.
- ◆ Applications in commercial construction

Instructors: John Vogt, John Hogan

06-2A KCP&L Electric Service Standards

8:00 AM to 12:00 PM 4 Hours DE Specialty Code Credit

Of greatest interest to Class DE, but also of interest to Class A, B, and C contractors, this session will instruct participants on the Kansas City Power and Light Electric Service Standards (ESS) as they pertain to the installation, alteration, or modification of residential, commercial, and industrial services. The residential portion of the class will address the ESS requirements for single-family dwellings, duplexes, manufactured homes and apartments. The commercial and industrial portion will focus on three-phase service at commercial and industrial sites. We will discuss overhead service, underground service and rural residential service, service alterations, restoration of failed services and metering. The course will also include discussion of installation requirements, material and the codes.

Instructors: KCP&L Standards and Field Design Departments staff

06-2B Advanced Roofing Technology and Managing Radiant Heat

1:00 PM to 3:00 PM 2 Hours DR Specialty Code Credit

This course, designed to appeal to Class DR, C, and B contractors, designers and building inspectors, will first present the latest developments in roofing technology, including the sealed attic system, an innovative concept gaining significant market momentum, with technical merit in the areas of air tightness, energy efficiency and moisture control. All three heat transfer mechanisms in buildings (conduction, convection, and radiation) will be examined. Traditional radiant barrier technology will be examined, and an analysis of the pros and cons of using such materials will be presented. Innovative ways of combined management of radiant heat and moisture in buildings will be

introduced and field-tested practical solutions will be provided. Attendees will:

- ◆ Understand the building physics which support the Sealed Attic System.
- ◆ Realize the technical merits of the Sealed Attic System.
- ◆ Learn how diffusion-open membranes can reduce heat loss while preventing condensation, mold, and rot.
- ◆ Learn how to design and build roofs using the Sealed Attic System.
- ◆ Understand the building physics of Radiation and Radiant Heat Flow.
- ◆ Understand the fundamental operation of Radiant Barriers.
- ◆ Learn how to manage radiant heat in buildings in different climates.
- ◆ Learn practical solutions that can address and resolve radiant heat and moisture flow in buildings at the same time.

Instructor: Dr. Arturo Horta

06-2C Housing Trends

3:00 PM to 5:00 PM 2 Hours Elective Credit

In this fast-paced session, Metro Area home building expert, Tim Underwood, will lead us with a glimpse into the future of housing in both the Kansas City and national market. Participants will learn about the current market through comparison to the future market, with a discussion of tools for the development of strategic plans for addressing the needs of a changing market demographic. This is a must-attend class for Class C contractors, which will also be of interest to designers, planners, elected officials, and building officials.

Instructor: Tim Underwood

06-3A 2006 International Residential Code Update

1:00 PM to 5:00 PM 4 Hours Code Credit

Of greatest interest to Class C contractors, building inspection staff, plan reviewers, and designers, the 2006 IRC Update class provides an overview of the changes between the 2003 IRC and the 2006 IRC. Significant changes in the code requirements will be identified and discussed, and the applicability of the requirements to design, plan review, inspection and construction will be identified. Upon completion, attendees will better be able to:

- ◆ Identify the most significant differences between the 2003 and 2006 IRC.
- ◆ Locate sections containing differences in the 2006 IRC.
- ◆ Classify illustrations as compliant or non-compliant in terms of the 2006 IRC.
- ◆ Use the 2006 IRC to answer questions regarding the code's requirements.

Instructor: Dave Utterback

06-4A Motors and Air Conditioning Equipment

8:00 AM to 12:00 PM 4 Hours DE, DM Specialty Code Credit

Of great interest to Class DE and DM contractors, this four-hour class will focus on the specifics of equipment selection, equipment protection, power and control wiring, and grounding and bonding of motors and air conditioning equipment as governed by the 2005 NEC. This course will be of value to designers, specifiers, and installers who need an introduction to or expanded knowledge of Articles 430 and 440, or other related NEC Articles.

Instructor: Mike Weaver

06-4B Grounding and Bonding of Information Technology Equipment

1:00 PM to 5:00 PM 4 Hours DE Specialty Code Credit

Article 645 of the 2005 NEC governs equipment, power-supply wiring, equipment inter-

connecting wiring, and grounding of information technology equipment and systems in an information technology equipment room. This four-hour introduction and overview will provide basic information, along with a detailed examination into grounding, bonding, equipment installation, and power wiring of this specialized and unfamiliar area of the NEC. With material developed by the International Association of Electrical Inspectors, both depth and clarity of material can be assured. This course begins with the basic necessities, developing an understanding of grounding and bonding, on which will be built a highly technical and specific understanding based in the context of the Information Technology environment. Of interest to Class DE contractors, building inspectors, designers and IT specialists, participants will enjoy detailed coursework published by the International Association of Electrical Inspectors and "Soares On Grounding and Bonding, 9th Edition".

Instructor: Mike Weaver

06-5A UL 101

8:00 AM to 12:00 PM 4 Hours DE, DF, DM, DP, DR Specialty Code Credit

Underwriter's Laboratories, better known as UL, occupies a unique role in the US safety certification process. UL publishes a wealth of information relating to the products, systems and assemblies tested to the various requirements of building, fire, mechanical, plumbing and electrical codes. This course will explain the history of UL, the UL certification process, how the information published by UL can be accessed and used to show compliance with the codes. Recommended for Class A, B, C, all D contractors, designers, building inspectors, and plan reviewers.

Instructor: Richard Walke

06-5B UL 300 Kitchen Hood Systems

1:00 PM to 5:00 PM 4 Hours DF, DM Specialty Code Credit

Commercial cooking operations inherently represent a hazardous environment. This session will examine the fire safety requirements of the International Mechanical Code and the International Fire Code for commercial cooking operations, including the hood system, the exhaust ductwork, the fixed fire extinguishing system, and the hand held portable fire extinguishers specified by these codes. The main focus will be on the fire extinguishing system and fire extinguishers, including the history of the test standards, the testing of these systems, and how to access information on these systems in the published UL Directories and Online Certifications Directory. This class is recommended for Class DF, DM, A, and B contractors, designers, and building inspection staff.

Instructor: Richard Walke

06-6A 2006 International Fire Code Update

8:00 AM to 12:00 PM 4 Hours DF Specialty Code Credit

This class will be of special interest to Class DF, A and B contractors, plan reviewers, and designers, presenting an overview of the changes from the 2003 Edition to the 2006 Edition of the International Fire Code. The class will identify organization and code requirements, while illustrating the applicability of these requirements to design, plan review, and inspection. Upon completion, participants will be better able to:

- ♦ Identify the significant differences between the 2003 IFC and 2006 IFC.
- ♦ Identify the changes in organization and code requirements.
- ♦ Identify the applicability in design, plan review and inspection requirements.

Instructor: Kevin Scott

06-6B 2006 International Fire Code Fire Protection Systems

1:00 PM to 5:00 PM 4 Hours DF Specialty Code Credit

Addresses the IFC requirements relating to fire protection systems, including automatic sprinkler systems, alternative automatic extinguishing systems, standpipe systems, fire alarm and detection systems, smoke control, and other systems. This course will be of greatest interest to Class DF, A, and B contractors, designers, fire inspectors, building inspectors and plan reviewers. Upon completion, participants will be able to:

- ♦ Determine where and when fire protection systems are required.
- ♦ Understand the principals of how a fire protection system detects a fire, alerts the occupants, alerts the fire department, controls smoke, and controls fire.
- ♦ Describe why a fire protection system must conform to the code and standards.

Instructor: Kevin Scott

06-7A 2006 International Mechanical Code Update

8:00 AM to 12:00 PM 4 Hours DM Specialty Code Credit

This overview of the critical concepts of the 2006 IMC will be a class all Class DM, many Class A and B contractors, building inspectors, plan reviewers, and designers will want to attend. The class will review the significant changes from the 2003 to the 2006 Editions of the IMC, from the perspective of the code requirements. The applicability of these changes to field, design, plan review, and inspection will be the special focus of the class. Time will be spent reviewing portions of the 2006 International Fuel Gas Code in relation to the IMC. Participants will be better able to:

- ♦ Identify the most significant differences between the 2003 and 2006 IMC.
- ♦ Effectively use the 2006 IMC to answer questions regarding code requirements.

Instructor: Robert Schutz

06-7B 2006 International Plumbing Code Update

1:00 PM to 5:00 PM 4 Hours DP Specialty Code Credit

This overview of the critical concepts of the 2006 IPC will be of interest to all Class DP, many Class A and B contractors, building inspectors, plan reviewers, and designers. The class will compare the significant changes between the 2003 to the 2006 IPC. Changes in code requirements and the applicability of these requirements will be the class focus, while a review of topic appropriate portions of the 2006 International Fuel Gas Code will be made. Upon completion, participants will be able to:

- ♦ Identify the most significant differences between the 2003 and 2006 IMC.
- ♦ Effectively use the 2006 IMC to answer questions regarding code requirements.

Instructor: Robert Schutz

06-A1A Workman's Compensation Law In Kansas and Missouri

8:00 AM to 12:00 PM 4 Hours Elective Credit

Whether on a small project for a homeowner or a major commercial development, construction companies must deal, on a daily basis with some of the most dangerous working conditions of any industry. Cliff Stubbs, a recognized expert in both Kansas and Missouri Workman's Compensation law will address the concerns faced by prime contractors, sub-contractors, design and engineering professionals, construction managers, and equipment or material suppliers. Class A, B, C, and D contractors, and design professionals will all want to attend this presentation, designed to answer all your questions regarding Kansas and Missouri Workman's Compensation law.

Instructor: Cliff Stubbs

06-A1B Mechanics Lien Law

1:00 PM to 5:00 PM 4 Hours Elective Credit

This elective class will be on the "must attend" list for all Class A, B, C, and D contractors, with the fast-paced, information packed, presentation by two of Kansas City's most experienced Lien Law experts. John Duggan brings to the podium expertise on the law from the perspective of a licensed contractor.

Instructors: John Duggan, Eric Kraft

06-A2A Commercial Plan Review, Part 1

8:00 AM to 5:00 PM 8 Hours Code Credit

The first day of a popular two-day class designed to explain the process of conducting a plan review process for small and medium sized commercial projects. The two-day course will cover the building, plumbing, mechanical, and electrical requirements for a commercial project. This first day will focus on the building code portion of the review, using the 2006 International Building Code. The class will be of particular interest to building inspectors who wish to become plan reviewers, plan reviewers interested in professional development, and Class A and B contractors or designers who seek to be successful in the plan review process. It is recommended that this class be taken in conjunction with **07-2A, Commercial Plan Review, Part 2**, offered November 7, 2006.

Instructor: Steve Thomas



Tuesday, November 7, 2006

07-1A Framing For Plumbers, Mechanics, and Electricians

8:00 AM to 10:00 AM 2 Hours DE, DP, DM Specialty Code Credit

This session is designed to provide Class C, DE, DP, and DM contractors, and building inspectors, with a detailed look at the provisions in the 2006 International Residential Code, with respect to what and how framing can be cut, notched, or bored. We will take a detailed look at dimensional lumber, as well as engineered joists, and LVL beams. Participants will learn the correct application of tension straps: when, where, and why they are applied. The class will cover the requirements for protecting plumbing piping, and conductors placed in walls. Fire blocking requirements will be discussed, and illustrated in great detail. We will view examples common code violations, and have ample opportunity to discuss solutions to frequently faced field application issues.

Instructor: Dave Utterback

07-1B Roof Flashing and Framing

10:00 AM to 12:00 PM 2 Hours DR Specialty Code Credit

This course is designed to provide Class DR and C contractors with the tools they need to correctly flash roof installations, with a detailed examination of the components of the conventional light wood frame roof assembly. The class presentation will cover the 2006 International Residential Code requirements for installing the roof assembly as a portion of the required weather resistive barrier, with particular attention to commonly encountered construction errors.

Instructor: Dave Utterback

07-1C Conventional Light Wood Framing in the 2006 International Building Code

1:00 PM to 5:00 PM 4 Hours Code Credit

A detailed review and in-depth examination of the conventional light wood framing pro-

visions from Chapter 23 of the 2006 International Building Code will be the focus of this class. In addition, special attention will be paid to those portions of the 2006 IBC new to the code, or which represent changes from the 2003 Edition. Focus topics will include braced wall panels, the mechanics of wood performance, and common framing errors. This class will be of special interest to Class A and B contractors, designers, building inspectors, and plan reviewers who are working with wood frame commercial and multi-family residential projects.

Instructor: Dave Utterback

07-2A Venting Gas Appliances

8:00 AM to 12:00 PM 4 Hours DM, DP Specialty Code Credit

This class will appeal primarily to Class DM, DP contractors, and building inspectors, but will should also be of interest to Class A, B, and C contractors, designers, and plan reviewers. The focus will be on common errors in the venting of gas furnaces, and water heaters, but will include:

- ♦ Inspection of existing vents and chimneys.
- ♦ Chimneys, vents, and common vents.
- ♦ Common errors made when sizing vents and chimneys.
- ♦ Manifolds, vent offsets, connectors, and extended length vent connectors.
- ♦ Clearance to combustibles.
- ♦ Masonry chimney kits and flex liners.
- ♦ Exterior Chimneys and 80% furnaces.
- ♦ Elite Software's GasVent software program.

Participants will receive a certificate which may be redeemed for a copy of the Elite Software GasVent program, and participants will receive detailed instruction in the use of the GasVent software.

Instructor: Don West

07-2B Residential Security Code and Security Applications

1:00 PM to 5:00 PM 4 Hours Code Credit

As an increasing number of Johnson County jurisdictions adopt Residential Security Codes for new single and multi-family residential construction, there are an increasing number of questions regarding the implementation of the security standards. In a team teaching format, security industry experts will discuss the genesis of the residential security codes, provide demonstrations, and illustrate methods of code implementation. This class will be of primary interest to Class A, B, and C contractors involved in single and multi-family dwelling construction.

Instructors: Mike Betten, Ron Olberding, Dave Allen

07-3A Water Management In Commercial Window Systems

8:00 AM to 12:00 PM 4 Hours Code Credit

Designed to be of greatest interest to Class A, and B contractors, designers, engineers, building inspectors, and plan reviewers, this class will look closely at the design and installation of commercial window systems, in the context of the role windows play as components in the building weather resistive barrier.

Instructor: Terry Zeimetz

07-3B Swimming Pools and the 2006 IRC

1:00 PM to 3:00 PM 2 Hours Code Credit

This class will focus on the requirements for swimming pools, spas, and hot tubs, as outlined in Appendix G, of the 2006 International Residential Code. We will discuss:

- ♦ Definitions of swimming pools, spas, and hot tubs.
- ♦ Barrier requirements.
- ♦ Entrapment Protection.

This class will be of greatest interest to Class C contractors and swimming pool contractors who are licensed by the Johnson County Contractor Licensing program.

Instructor: Andrew Bohl

07-3C Role of Air and Water-Resistive Barriers in Wall Construction

3:00 PM to 5:00 PM 2 Hours Code Credit

Beginning with a discussion of the basics of barrier protection in the wall assembly, this class will focus on the science and technology of preventing moisture intrusion and entrapment in building construction. We will compare and contrast the use and efficacy of air and water barriers, from the perspective of the latest technology. While common in commercial construction, a closer look at the use of air barriers in the prevention of mold, and energy savings associated with residential construction make this a class of great interest for Class C contractors, as well as A, and B contractors, designers, building inspectors and plan reviewers. At the conclusion of the presentation, participants will be able to:

- ♦ Discuss at least two factors behind the increased use of air barriers.
- ♦ Describe how uncontrolled air moves through building envelopes.
- ♦ Compare and contrast air and vapor barriers.
- ♦ Support the use of vapor permeable air barriers.
- ♦ Identify key criteria for effective air barriers.

Instructors: Paul Grahovac and PROSOCO staff

07-4A Secondary Water-Resistive Barriers & Installations for Residential Construction

8:00 AM to 10:00 AM 2 Hours Code Credit

This session provides Class C contractors, designers, and building inspectors with the needed information from the 2006 International Residential Code for the installation of weather-resistive barriers. The class will include installation demonstrations. Upon completion, participants will be able to:

- ♦ Identify the requirements and benefits of using a secondary water-resistive barrier in different wall assemblies.
- ♦ Identify different types of water-resistive barriers.
- ♦ Understand how to integrate self-adhered flashing tapes with water-resistive barriers per AAMA guidelines.
- ♦ Understand better methods of installation for walls with and without sheathing.

Instructors: Hallmark Building Supplies, Inc.

07-04B Air, Water and Moisture Management in Commercial Building Envelopes

10:00 AM to 12:00 PM 2 Hours Code Credit

In this class we will study the necessity for building envelope redundancy in the commercial building envelope to help reduce damage done to water intrusion and energy lost due to air infiltration. At the end of the program, the participants will understand the importance of building redundancy in the commercial building envelope, as well as various methods currently available for accomplishing this. This class will be of greatest interest to Class A, and B contractors, designers, building inspectors, and plan reviewers.

Instructors: Hallmark Building Supplies

07-04C Westar Electric Service Standards

1:00 PM to 5:00 PM 4 Hours DE Specialty Code Credit

Of interest to Class DE, A, B, and C contractors, this class will instruct participants on the Westar Electric Service Standards (ESS) as they pertain to the installation, alteration, or modification of electrical services. The class will address the ESS requirements for single-family dwellings, duplexes, manufactured homes, apartments, and three-phase service at commercial and industrial sites. We will discuss overhead service, underground service, service alterations, restoration of failed services and metering. The course will also include discussion of installation requirements, material and the codes.

Instructors: Westar Staff

07-5A Fire Resistive Construction

8:00 AM to 12:00 PM 4 Hours Code Credit

Fire resistive construction is an integral part of the fire safety package in commercial construction. This session will provide an overview of the fire resistive construction requirements found in Chapter 7 of the 2006 International Building Code. From there, the discussion will focus on the major elements of the structure; those being the columns, beams, floor/ceilings, roof/ceilings, and walls. The session will include specific information on the code requirements for these elements, the testing of the elements, the various methods which can be used to show compliance with the code requirements, and how to access information on fire resistive construction in the UL Fire Resistance Directory and the Online Certifications Directory. This class will be of greatest interest to Class A, and B contractors, plan reviewers, and building inspectors. Class C contractors and designers will also gain important insight into fire resistive construction.

Instructor: Richard Walke

07-5B Fire Resistive Construction Joints and Perimeter Fire Containment Systems

1:00 PM to 5:00 PM 4 Hours Code Credit

Construction joints are designed into buildings to accommodate movement created by thermal, wind sway and seismic forces. When the construction fire resistance rated, the construction joints need to maintain the fire rating of the elements in which they are installed. Likewise, the gap around the perimeter of a building needs to be constructed so as to contain a fire to the floor of origin. This session will discuss the need to protect these openings, the code requirements for these openings, the history of the test standards, the testing of these openings, and how to access the information on fire resistive construction joints and perimeter fire containment systems in the UL Fire Resistance Directory, and the Online Certifications Directory. This class is recommended for all Class A and B contractors.

Instructor: Richard Walke

07-6A Standards for the Installation of Private Fire Service Mains and Appurtenances

8:00 AM to 12:00 PM 4 Hours DF, DP Specialty Code Credit

In this session we will examine the requirements for the installation of private fire service mains and their appurtenances supplying automatic fire sprinkler systems, open sprinkler systems, water spray fixed systems, foam systems, private hydrants, monitor nozzles, or standpipe systems. The class will discuss references to water supplies, private hydrants, and hose houses. We will also review combined service mains used to carry water for both fire service and other uses. This class will be of interest to Class DF, DP, A, B, and C contractors, inspectors, plan reviewers, developers, and designers.

Instructor: Mark Finocchio

07-6B 2006 International Fire Code Chapter 23: High-Piled Storage

1:00 PM to 5:00 PM 4 Hours DF Specialty Code Credit

This session will provide Class DF, A, and B contractors, building inspectors, and plan reviewers with a detailed overview of the 2006 International Fire Code requirements for High-Piled Storage. We will examine:

- ♦ Aisles.
- ♦ Automated storage.
- ♦ Automatic sprinklers.
- ♦ Classifications and commodities.
- ♦ Fire Protection.
- ♦ High-piled storage areas.

Instructor: Mark Finocchio

**07-7A 2006 International Plumbing Code Special Topics:
Indirect and Special Waste, Traps, Interceptors, and Separators**

8:00 AM to 10:00 AM 2 Hours DP Specialty Code Credit

This session will be a focused approach to the provisions of Chapters 8 and 10 of the 2006 International Plumbing Code, regarding the requirements for indirect waste piping, special waste piping, traps, interceptors, and separators. Participants will learn about the use of correct materials, and installation methods, as specified in the code. Special attention will be given to changes in the 2006 International Plumbing Code, from past editions. In addition, during this class, Class DP, A, and B contractors will learn about and discuss materials, joints, connections, sizing, and requirements for these systems.

Instructor: Robert Schutz

**07-7B 2006 International Plumbing Code Special Topics:
Building Roof Drains and Building Sewers**

10:00 AM to 12:00 PM 2 Hours DP Specialty Code Credit

In this class, the target audience of Class DP, A, and B contractors, building inspectors, designers, and plan reviewers, will engage in a detailed examination of one of the most frequently mis-understood portions of the plumbing code: building roof drains and building sewers. Participants will review the requirements of and changes to Chapter 11 of the 2006 International Plumbing Code. We will discuss materials, sizing, and connections of roof drains, conductors, leaders, storm drains, secondary roof drains, and controlled flow roof drains. During the class we will discuss not only the requirements of the code, but also discuss the application of the code requirements in the field.

Instructor: Robert Schutz

**07-7C 2006 International Plumbing Code Special Topics:
Drain and Vent Sizing**

1:00 PM to 3:00 PM 2 Hours DP Specialty Code Credit

This session will focus Chapter 7 and 9 of the 2006 IPC, with special emphasis on the sizing of drain and vent systems. Participants will understand the changes in the 2006 International Plumbing Code, how to use the tables in the code for sizing drains and vents, and discuss the application of this knowledge in the field. While of greatest interest to Class DP contractors, and building inspectors, Class A and B contractors, designers, and plan reviewers will also be interested in this session.

Instructor: Robert Schutz

07-7D 2006 International Plumbing Code Special Topics

Applications and Specifications For Piping

3:00 PM to 5:00 PM 2 Hours DP Specialty Code Credit

During this specialized class, Class DP, A, and B contractors, building inspectors, plan reviewers, designers, material suppliers, and specifiers will learn about the proper use, identification, and specification of piping materials. Within that context, participants will become familiar with the identification, and application of approved materials specified in the 2006 International Plumbing Code. Attendees will learn where to find, and how to use approved materials tables in the code, for water supply and distribution, sanitary drainage, vents, storm drainage, and special piping applications. Participants will have ample opportunity to discuss practical field situations.

Instructor: Robert Schutz

07-A1A Analysis of Code Changes in the 2005 National Electric Code

8:00 AM to 5:00 PM 8 Hours DE Specialty Code Credit

This eight-hour overview and analysis gives a jumpstart into the more significant changes that impact all electrical work. Over 3,500 proposals and 4,000 public comments have shaped the 2005 NEC into a code unlike its predecessor. While all the changes can't be reviewed in one day, this course is intended to provide detail into the more significant changes adopted into the 2005 NEC. The accompanying coursework, "Analysis of Changes, 2005 NEC" published by IAEI, provides attendees with up-close and personal insight and detailed reference into 400 of the more crucial changes. This fast paced session covers a lot of ground in a day, and is a "must attend" class for all Class DE contractors and electricians.

Instructor: Mike Weaver

07-A2A Commercial Plan Review, Part 2

8:00 AM to 5:00 PM 8 Hours Code Credit

The second day of a popular two-day class designed to explain the process of conducting a plan review process for small and medium sized commercial projects. The two-day course will cover the building, plumbing, mechanical, and electrical requirements for a commercial project. The second day will focus on the plumbing, mechanical, and electrical code portions of the review, using the 2006 International Code series. The class will be of particular interest to building inspectors who wish to become plan reviewers, plan reviewers interested in professional development, and Class A and B contractors or designers who seek to be successful in the plan review process. It is recommended that this class be taken in conjunction with **06-2A, Commercial Plan Review, Part 1**, offered November 6, 2006.

Instructor: Steve Thomas



Wednesday, November 8, 2006

08-1A Concrete Basics 101

8:00 AM to 12:00 PM 4 Hours Code Credit

This is an entry level class designed as an overview of concrete basics. Always popular, this class will be of value to Class A, B, and C contractors, concrete sub-contractors, designers, and building inspectors. We will discuss water /cement ratios, sub-base preparation, flatwork construction practices, and much more.

Instructors: Blake Bennett, Concrete Promotional Group

08-1B Concrete Admixtures

1:00 PM to 3:00 PM 2 Hours Code Credit

What are admixtures? Why do I need to use them? This class will answer all your questions about concrete admixtures, both chemical and mineral. We will discuss different admixtures, when and why you need them, and how they work. This advanced class requires you have completed **Concrete 101, offered from 8 AM to 12 PM, November 8, 2006, or that you have a current ACI Flatwork Finisher Certificate**, and will be of value to the same constituent groups as Concrete 101.

Instructors: Alan Bandyk, Concrete Promotional Group

08-1C Insulating Concrete Form (ICF) Construction for Commercial Construction

3:00 PM to 5:00 PM 2 Hours Code Credit

This session will appeal to Class A and B contractors interested in ICF building construction. The class will cover the construction process, discuss actual projects in the Kansas City area, while illustrating the ease of construction in terms of cost benefit.

Instructor: Shannon Fish

08-2A Structural Tests and Special Inspections

8:00 AM to 5:00 PM 8 Hours Code Credit

This class will appeal to Class A, and B contractors, building officials, inspectors, plan reviewers, and designers. This class will deliver an in-depth overview and perspective on the IBC, Chapter 17, Structural Tests and Special Inspections, two areas of building code requirements not generally understood, or enforced. Critical for success in the commercial construction process, the role of the qualified special inspector in special inspection and structural observation by registered design professionals will be examined. The class will provide an outline for the development of a special inspection program, while providing insight for the successful execution of the code requirements.

Instructor: Ron Lynn

08-3A Lead Safe Work Practices and PRE Certification Training

8:00 AM to 5:00 PM 8 Hours Code Credit

The goal of this program is to teach attendees lead-safe work practices and strategies for implementing them. Attendees will learn to prevent adverse health effects from renovation, remodeling, and repair activities. The Pre-Renovation Education (PRE) Program will be discussed, and the application of Kansas Administrative Regulations 28-72-51 through 28-72-54 to renovations and remodeling in residential housing built before 1978 will be examined. This program will be of interest to Class C remodeling contractors, and their employees, housing inspectors, and dwelling owners.

Instructor: Richard Baker, Raquel Shortman

08-4A Deck Design and Construction

8:00 AM to 12:00 PM 4 Hours Code Credit

This session will provide Class C contractors, designers, building inspectors, and plan reviewers with the information needed to determine if the minimum requirements for deck construction set forth in the International Residential Code and the Johnson County Deck Standards have been met. Participants will learn:

- ♦ The mechanics of wood used in deck construction.
- ♦ How to size joists, beams, posts, and piers.
- ♦ Proper specification and use of fasteners.
- ♦ How to draw construction and plot plans for permitting process.

Instructor: Dave Utterback

08-4B Stucco Applications

1:00 PM to 5:00 PM 4 Hours Code Credit

This class will provide Class A, B, and C contractors, stucco applicators, building inspectors, and designers with a detailed overview of the Johnson County Stucco Application Guidelines. Special emphasis will be placed on proper window installation and flashing, as well as the correct application of the secondary drainage plane. We will discuss how these elements work in concert to keep water and moisture out of the structure. Participants will be able to:

- ♦ Determine the correct application of the secondary drainage plane and building paper around windows and behind trim.
- ♦ Identify how to correctly attach the paper backed lath.
- ♦ Determine the correct accessories to use and how they should be applied.

Instructor: Dave Utterback

08-5A NATE Test Review: Heat Pump Specialty and CORE Exam Review

8:00 AM to 12:00 PM 4 Hours DM Specialty Code Credit

The objective of this class is to prepare the student to successfully pass the NATE Core and Heat Pump Service Test. The Core section will cover customer service skills, basic refrigeration cycle and theory, basic electricity, and safety. The Heat Pump section will cover thermodynamics of heat transfer, heat pump air flow requirements, heat pump components, correct charging procedures, heat pump troubleshooting, balance points, and electrical controls as related to heat pump systems. This is a class tailored for Class DM contractors and HVAC installers.

Instructor: Dan West

08-5B NATE Certification Test Session

1:00 PM to 5:00 PM 4 Hours DM Specialty Code Credit

A test session for NATE (North American Technician Excellence) certification is being sponsored by the Kansas City Chapter of the Air Conditioning Contractors of America (ACCA). Tests offered are the Core exam and five specialty exams (Air Conditioning, Air Distribution, Gas Heating, Heat Pump, and Oil Heating), for both service and installation technicians. Passing the Core exam and at least one specialty exam are required for certification. Exam costs are: ACCA members, \$90 for the Core exam and \$110 for each specialty exam; non-members, \$130 for the Core exam, and \$150 for each specialty exam. **Exam registration must be received by ACCA Kansas City Chapter by October 19, 2006. Exam registration form is located at the end of this brochure.**

Proctor: Linda Gallagher, ACCA

08-6A Profitability Series: Managing Risk to Increase Profits, Insurance

8:00 AM to 12:00 PM 4 Hours Elective Credit

While risk itself cannot be managed by insurance the potential for the negative financial impact of events on the company can be. Discussion includes this perspective, various ways to use insurance to share risk, types of insurable risks, underwriting issues, exculpatory issues, and wrap around policies. This class will be of interest to Class A, B, C, and D contractors.

Instructor: Chuck Breidenstein

08-6B Profitability Series: Managing Risk to Increase Profits, Personnel

1:00 PM to 5:00 PM 4 Hours Elective Credit

A myriad of issues attach to hiring, training, employing, and terminating people. Discussion includes shared risk, interviewing issues and strategies, civil rights issues as they apply, record keeping, training consideration, compensation, advancement, testing and dismissal. This class will be of interest to Class A, B, C, and D contractors.

Instructor: Chuck Breidenstein

08-7A Carbon Monoxide Safety and Combustion Systems

8:00 AM to 3:00 PM 6 Hours DM Specialty Code Credit

In this session, the Bacharach Institute of Technical Training team will present a class of greatest interest to Class DM, which will also be of value to home inspectors. The experts from Bacharach Industries will focus on:

- ♦ Current Standards for CO in ambient air and flue gas.
- ♦ Measuring CO and conducting source investigations.
- ♦ HVAC system components.
- ♦ Controlling fuel in fuel burning appliances.
- ♦ What is draft and why is it important.
- ♦ Combustion system testing procedures.
- ♦ Simple combustion systems trouble shooting.

Instructors: Ken Kimball, Bob Dwyer

08-7B Building Pressure Diagnostics

3:00 PM to 5:00 PM 2 Hours DM Specialty Credit

This session will appeal to Class DM contractors, with an in depth analysis of building pressure diagnostics. Slight pressure differences can make a significant difference in building comfort and system efficiency. During this diagnostic training class participants will be introduced to a comparison of competing measurable pressures within a building. We will examine:

- ♦ Exhaust fan influences.
- ♦ Heat loss pressures.
- ♦ Leaky ductwork pressures.
- ♦ Return air shortcuts and safety.

Instructors: Ken Kimball, Bob Dwyer

08-A1A Public Agency Forum

8:00 AM to 12:00 PM 4 Hours Code Credit

During this session, participants will have the opportunity to engage representatives of 16 planning, building inspection, and public utility agencies in discussions of permitting processes, specialized training topics, and agency standards. A unique roundtable rotation will allow participants to select as many as 8 separate topics during the session.

Instructors: Various Public and Utility Agencies



Contractor Licensing Fall 2006 Ed

	Room 1	Room 2	Room 3	Room 4	
Monday 11/6/2006	Wood Truss Basics for Residential Construction 8 am to 12 pm Hogan/Vogt	KCP&L Electric Service Standards 8 am to 12 pm KCP&L Staff	2006 IRC Update 1 pm to 5 pm Dave Utterback	Motors & Air Conditioning Equipment 8 am to 12 pm Mike Weaver	
	Commercial Truss Design & Applications 1 pm to 5 pm Hogan/Vogt	Advanced Roofing Technology & Managing Radiant Heat 1 pm to 3 pm Dr. Arturo Horta		Grounding & Bonding of IT Equipment 1 pm to 5 pm Mike Weaver	
		Housing Trends 3 pm to 5 pm Tim Underwood			
Tuesday 11/7/2006	Framing For Plumbers, Mechanics, and Electricians 8 am to 10 am Dave Utterback	Venting Gas Appliances 8 am to 12 pm Don West	Water Management In Commercial Window Systems 8 am to 12 pm Terry Zeimet	Residential Weather Resistive Barriers 8 am to 10 am Hallmark Building Supply, Inc.	UL
	Roof Flashing and Framing 1 pm to 3 pm Dave Utterback			Commercial Weather Resistive Barriers 10 am to 12 pm Hallmark Building Supply, Inc.	
	Conventional Light Wood Framing in the 2006 IBC 1 pm to 5 pm Dave Utterback	Residential Security Code and Security Applications 1 pm to 5 pm Mike Betten/Olberding/Allen	Swimming Pools and the 2006 IRC 1 pm to 3 pm Andrew Bohl	Westar Electric Service Standards 1 pm to 5 pm Westar Staff	Fire and
		Role of Air & Water- Resistive Barriers in Wall Construction 3 pm to 5 pm Paul Grahovac/PROSOCO			
Wednesday 11/8/2006	Concrete Basics 101 8 am to 12 pm Blake Bennett/CPG	Structural Test and Special Inspections 8 am to 5 pm Ron Lynn	Lead Safe Work Practices: PRE Certification Training 8 am to 5 pm Raquel Shortman Richard Baker	Deck Design & Construction 8 am to 12 pm Dave Utterback	NA Spe
	Concrete Admixtures 1 pm to 3 pm Allen Bandyk/CPG			Stucco Application 1 pm to 5 pm Dave Utterback	
	ICF Construction for Commercial Applications 3 pm to 5 pm Fish/CPG				
Thursday 11/9/2006	Troubleshooting Concrete Cracks & Surface Defects 8 am to 10 am Blake Bennett/CPG	KGS Gas Service Standards & Service Issues 8 am to 10 am Paul Alvarado	2006 IBC Accessibility and Usability 8 am to 5 pm Kim Paarlberg	Swimming Pools, Spas, Hot Tubs & Hydromassage Bath Tubs in the 2005 NEC 8 am to 10 am Mike Weaver	John
	Troubleshooting Decorative Concrete 10 am to 12 pm Chris Sullivan	Expansive Soils & Foundation Backfill 10 am to 12 pm Brian Linnan		Dwelling Electrical Service & Feeder Calculations 10 am to 5 pm Mike Weaver	
	Tilt-Up Construction and Connections 1 pm to 5 pm Jeff Needham & Karen Hand	Total Precast Structures 1 pm to 3 pm Coreslab			
		Creative Precast Options 3pm to 5 pm Coreslab			
Friday 11/10/2006	Radiant Heating Systems 8 am to 12 pm Larry Lang	Contractor Testing & Inspector Certification 8 am to 12 pm International Code Council	Concrete Parking Lot & Paving Design 8 am to 12 pm Matt Ross/Todd LaTorella	Hazardous (Classified) Locations & Requirements 8 am to 12 pm Mike Weaver	Res C
	Hydronic Piping 1 pm to 5 pm Larry Lang	Contractor & Inspector Testing 1 pm to 5 pm International Code Council	Pervious Concrete for Stormwater Management 1 pm to 3 pm Bill Padfield	Grounding & Bonding of Separately Derived Systems & More Than One Structures 1 pm to 5 pm Mike Weaver	Con C
		Lessons From Building Failure Investigation 3 pm to 5 pm Needham/Hand			

Education Seminar Schedule of Classes

Room 5	Room 6	Room 7	Room A1	Room A2
UL 101 8 am to 12 pm Richard Walke	2006 IFC Update 8 am to 12 pm Kevin Scott	2006 IMC Update 8 am to 12 pm Robert Schutz	Workman's Compensation Law in Kansas and Missouri 8 am to 12 pm Cliff Stubbs	Commercial Plan Review Part 1 8 am to 5 pm Steve Thomas
300 Kitchen Hood Systems 1 pm to 5 pm Richard Walke	2006 IFC Fire Protection Systems 1 pm to 5 pm Kevin Scott	2006 IPC Update 1 pm to 5 pm Robert Schutz	Mechanics Lien Law 1 pm to 5 pm Duggan & Kraft	
Fire Resistive Construction 8 am to 12 pm Richard Walke	NFPA 24 Standards for the Installation of Private Fire Service Mains & Appurtenances 8 am to 12 pm Mark Finocchio	2006 IPC Special Topics: Indirect & Special Waste, Traps, Interceptors & Separators 8 am to 10 am Robert Schutz	Analysis of Code Changes 2005 NEC 8 am to 5 pm Mike Weaver	Commercial Plan Review Part 2 8 am to 5 pm Steve Thomas
		2006 IPC Special Topics: Building Roof Drains & Building Sewers 10 am to 12 pm Robert Schutz		
Resistive Construction Joints Perimeter Fire Containment Systems 1 pm to 5 pm Richard Walke	2006 IFC Chapter 23: High Piled Storage 1 pm to 5 pm Mark Finocchio	2006 IPC Special Topics: Drain & Vent Sizing 1 pm to 3 pm Robert Schutz		
		2006 IPC Special Topics: Applications & Specifications For Piping 3 pm to 5 pm Robert Schutz		
TE Test Review: Heat Pump Specialty & CORE Exam Review 8 am to 12 pm Dan West	Topics In Risk Management: Insurance 8 am to 12 pm Chuck Breidenstein	Carbon Monoxide Safety and Combustion Systems 8 am to 3 pm Ken Kimball/Bob Dwyer/Bacharach Industries	Public Agency Forum 8 am to 12 pm Various Agencies	Residential Plan Review Part 1 8 am to 5 pm Steve Thomas
NATE Certification Testing 1 pm to 5 pm Linda Gallagher	Topics In Risk Management: Personnel 1 pm to 5 pm	Building Pressure Diagnostics 3 pm to 5 pm Ken Kimball/Bob Dwyer/Bacharach Industries	Stormwater Management Erosion & Sedimentation Control 1 pm to 5 pm Lee Kellenberger	
son County Wastewater Standards & Permitting 8 am to 12 pm JCW Staff	Topics In Risk Management: Communication & Contracts 8 am to 12 pm Chuck Breidenstein	Light My Fire: A Fireplace Seminar 8 am to 12 pm Complete Home Concepts and Hearth & Home Technologies	Significant Changes in the 2006 IBC 8 am to 5 pm Robert Schutz	Residential Plan Review Part 2 8 am to 5 pm Steve Thomas
Residential Site Drainage 1 pm to 5 pm Peggy Sneegas	Building Green 1pm to 5 pm Chuck Breidenstein	JOCOBO Residential Foundations 1 pm to 5 pm Jim Jorgenson		
Residential Roofing: CARE Program 8 am to 12 pm Chris Mooney & CARE Staff	Marketing A Small Construction Business 8 am to 12 pm Chuck Breidenstein	Theory and Applications of Energy Efficient Delivery in 1 & 2 Family Dwellings Hot Water Systems 8 am to 12 pm Gary Klein		Multi-Family Construction Under the IBC & the IRC 8 am to 5 pm Steve Thomas
Commercial Roofing: CARE Program 1 pm to 5 pm Chris Mooney & CARE Staff	Design Build 1 pm to 5 pm Chuck Breidenstein	Theory and Applications of Energy Efficient Delivery in Multi-Family & Light Commercial Hot Water Systems 1 pm to 5 pm Gary Klein		

08-A1B Stormwater Management, Erosion and Sedimentation Control

1:00 PM to 5:00 PM 4 Hours Code Credit

Sediment is a leading pollutant of urban streams. New local, state, and federal regulations require the use of adequate erosion and sediment control measures. In this session we will conduct a comprehensive overview of new engineering standards, specifications, Best Management Practices, and performance based design criteria for land disturbance activities. This session will be of particular interest to Class A, and B contractors, planners, engineers, inspectors, and elected officials involved with NPDES Phase II implementation.

Instructor: Lee Kellenberger

08-A2A Residential Plan Review, Part 1

8:00 AM to 5:00 PM 8 Hours Code Credit

Designed to provide a broad overview of the process for residential plan review, this is the first day of a two day course which will provide the basic steps involved in completing a comprehensive review of a residence. We will discuss the tools and process for conducting a residential plan review based on the International Residential Code. The class will also increase your awareness of the necessary items required to insure code compliance of the homes in your jurisdiction. This seminar will most benefit building inspectors who wish to become plan reviewers, plan reviewers interested in professional development, and designers or Class C contractors who seek success in the plan review process. This is the companion class to **09-A2B Residential Plan Review, Part 2, offered November 9, 2006.**

Instructor: Steve Thomas



Thursday, November 9, 2006

09-1A Troubleshooting Concrete Cracks and Surface Defects

8:00 AM to 10:00 AM 2 Hours Code Credit

Always popular, but not for beginners, completion of Concrete 101, or a current ACI Flatwork Finisher Certification is a prerequisite for this advanced class. It follows the National Ready Mixed Concrete Association's Concrete In Practice Series (CIPs). Participants will receive a complete set of CIP's during the class.

Instructor: Blake Bennett, CPG

09-1B Troubleshooting Decorative Concrete

10:00 AM to 12:00 PM 2 Hours Code Credit

In this session, we will identify the common mistakes made in decorative concrete placement, discuss the causes, and consider solutions. An advanced, technical class, not for the novice, completion of Concrete 101, or a current ACI Flatwork Certification is a prerequisite for enrollment in this class.

Instructor: Chris Sullivan

09-1C Tilt-Up Construction and Connections

1:00 PM to 5:00 PM 4 Hours Code Credit

This class will examine Tilt-up construction, and the critical nature of connections. Class A, and B contractors, engineers, designers, building inspectors and plan reviewers will benefit from the detailed examination, from an engineering perspective, of this increasingly popular, cost effective, and versatile construction.

Instructors: Jeff Needham, Karen Hand

09-2A Kansas Gas Service Standards and Service Issues

8:00 AM to 10:00 AM 2 Hours DP Specialty Code Credit

This detailed examination of the Kansas Gas Service Gas Service Standards, is designed to address residential, commercial, and industrial gas service applications. We will discuss common service issues, and will employ full scale application modules. While the primary audience will be Class DP contractors, this class will also interest Class A, B, and C contractors, suppliers, and building inspectors.

Instructor: Paul Alvarado

09-2B Expansive Soils and Backfill

10:00 AM to 12:00 PM 2 Hours Code Credit

Perhaps the most challenging and dynamic issue associated with foundation placement is construction placed in and on the expansive soils common to Johnson County. During this class participants will examine methods of solving the challenges presented by this demanding soil condition, mitigation measures, and the placement of backfill.

Taught by an Engineer experienced in local construction, this is a session Class C contractors, building inspectors, designers, and foundation sub-contractors will want to attend.

Instructor: Brian Linnan

09-2C Total Precast Structures

1:00 PM to 3:00 PM 2 Hours Code Credit

This presentation will feature what comprises a total precast system and identify the components which can be integrated in the building structure. Local and national examples of total precast buildings will be presented. The key advantages of designing a precast system will be highlighted. Participants will learn about:

- ♦ Aesthetic and structural versatility of the total precast building.
- ♦ The high durability and low maintenance of the precast structure.
- ♦ Inherent fire resistance.
- ♦ Pre-construction services.
- ♦ Integrated design features.
- ♦ Condensed project scheduling.

This seminar will interest Class A, and B contractors, engineers, designers, building inspectors, and plan reviewers.

Instructors: Coreslab Structures

09-2D Creative Precast Aesthetic Options

3:00 PM to 5:00 PM 2 Hours Code Credit

The various aesthetic options used to manipulate the appearance of precast concrete are the focus of this presentation. Precast concrete can take on many different appearances. Each aesthetic option will be discussed in detail, and we will consider examples of projects from throughout the United States. The target audience for this seminar will be Class A, and B contractors, engineers, designers. Topics will include:

- ♦ Colors, finishes, textures, and the use of aggregates.
- ♦ Form liners, reveals, shapes, and radiuses.
- ♦ The use of cast-in designs.
- ♦ The use of cast-in thin brick, tile, and stone.

We will also discuss the precast production process, and consider a comparison of Architectural and structural precast concrete.

Instructors: Coreslab Structures

09-3A 2006 International Building Code Accessibility and Usability

8:00 AM to 5:00 PM 8 Hours Code Credit

The objective of the accessibility provisions of the 2006 IBC, is to meet or exceed the requirements of the Americans with Disabilities Act Accessibility Guidelines and the Fair Housing Accessibility Guidelines. The 2006 IBC and the referenced standard, ICC/ANSI A117.1 will be used in this seminar, which has been designed to familiarize Class A, B, and C contractors, designers, building inspectors, and plan reviewers with the code and standard requirements for construction of all types of buildings. Upon completion, participants will be able to identify the scoping and technical requirements for:

- ♦ Exterior routes and accessible entry.
- ♦ Building features and facilities.
- ♦ Occupancy requirements.
- ♦ Accessible Type A and B dwelling units.
- ♦ Existing buildings.

Instructor: Kimberly Paarlberg

09-4A Swimming Pools, Spas, Hot Tubs, and Hydromassage Bath Tubs in the 2005 NEC

8:00 AM to 10:00 AM 2 Hours DE Specialty Code Credit

This course is a two-hour overview of the 2005 NEC requirements of Article 680, and related Articles as they pertain to swimming pools, spas, hot tubs, and Hydromassage bathtubs. Additional emphasis is placed on the requirements of grounding and bonding of these installations. While the emphasis on grounding and bonding make this course well suited for non-electrician pool contractors, and installers, it will also be of value to electrical designers, Class B and C contractors and installers. The text used, the 2005 NEC, will provide obvious future value to all attendees. Participants may find highlighters and sticky notes useful during this seminar.

Instructor: Mike Weaver

09-4B Dwelling Electrical Service and Feeder Calculations

10:00 AM to 5:00 PM 6 Hours DE Specialty Code Credit

This session is an in-depth six-hour class designed to provide attendees the knowledge and tools necessary to perform the calculation for residential electrical services and feeders. The class follows a step-by-step process for determining the minimum electrical service and feeder requirements based on both the General and Optional methods of calculating, as depicted in the 2005 NEC. While your codebook and calculators may be helpful, this course is designed to provide all the necessary information and coursework to explain, comprehend, and complete the calculations without additional materials. This class is well suited for the Class DE contractor, designers, building inspectors, and plan reviewers, it will also be well suited for journeyman and master electricians. The coursework provides complete, detailed, descriptions of the code sections leading through the calculation process and has proven to be a valuable reference for future calculations or review.

Instructor: Mike Weaver

09-5A Johnson County Wastewater Standards and Permitting

8:00 AM to 12:00 PM 4 Hours DP Specialty Code Credit

During this class, JCW staff will present the department's construction standards, while discussing the permitting process. Representatives from the Environmental Division will discuss public pool requirements, standards for the installation of private sewage disposal facilities, and restaurants. Class A, B, C, and DP contractors will want to attend.

Instructors: Johnson County Wastewater Staff

09-5A Residential Site Drainage**1:00 PM to 5:00 PM 4 Hours Code Credit**

Increasingly, as innovative storm water management systems are developed to serve communities, site grading and drainage become more critical issues during the residential development and construction process. This seminar will examine the importance of site grading and it's relationship to site drainage in storm water management, and home owner satisfaction. The drainage design, execution, and solutions discussed will be of great interest to Class C contractors, as well as to developers, surveyors, engineers, building inspectors, and plan reviewers.

Instructor: Peggy Sneegas**09-6A Profitability Series: Managing Risk to Increase Profits, Communication and Contracts****8:00 AM to 12:00 PM 4 Hours Elective Credit**

While verbal agreements are generally considered legal, they are difficult to enforce, so the need for good written documentation at every step of the business cycle is considered critical. Our discussion will include internal policies and procedures, documentation strategies, external policies and procedures, and suggested management and document strategies. We will discuss sample language, to manage risk through communication and contracts. This course is important for all contractors, but will appeal in particular to Class A, B, and C prime contractors.

Instructor: Chuck Breidenstein**09-6B Building Green****1:00 PM to 5:00 PM 4 Hours Elective Credit**

We live in an exciting moment in the green and healthy building movement. Discover what is emerging, envision the future, and take the next bold steps. This session will be a discussion of the various techniques, materials, and systems to be developed in a Green Build project. This seminar is designed for Class A, and B contractors. We will examine:

- ♦ Sustainable design.
- ♦ Healthy buildings.
- ♦ Resource efficient.
- ♦ Sales perspectives.
- ♦ Marketing techniques.
- ♦ The future of high performance building.

Instructor: Chuck Breidenstein**09-7A Light My Fire: A Fireplace Seminar****8:00 AM to 12:00 PM 4 Hours DM Specialty Credit**

Are you looking to learn about the latest trends in the hearth industry? Would you like to brush up on your knowledge of gas and wood burning fireplace installation? Do you have questions about acceptable or unacceptable fireplace installations? Then join Complete Home Concepts, Inc., with Hearth and Home Technologies, as they review installation techniques such as proper chase construction, venting, installation restrictions, proper clearances, and much more. While attending, see some of the latest trends in the hearth industry. Whether you are an architect, Class A, B, C, or DM contractor, or building inspector, this seminar promises to deliver helpful information and answer important questions about fireplace systems in residential and commercial applications.

Instructors: Complete Home Concepts, Hearth and Home Technologies

09-7B Residential Foundations for One-and Two-Family Dwellings

1:00 PM to 5:00 PM 4 Hours Code Credit

This session will focus on a prescriptive approach to residential foundation design and construction as promulgated by the Johnson County Building Officials Association, for use in Johnson County jurisdictions, and the requirements found in Chapter 4 of the International Residential Code. We will discuss some of the changes to be found in the 2006 International Residential Code, while we compare these requirements to this prescriptive methodology. This class will be of interest to Class C contractors, building inspectors, plan reviewers, architects, engineers, and foundation sub-contractors.

Instructor: Jim Jorgensen

09-A1A Significant Changes in the 2006 International Building Code

8:00 AM to 5:00 PM 8 Hours Code Credit

This seminar will familiarize Class A, and B contractors, building inspectors, plan reviewers, architects, and engineers with many of the important changes in the 2006 IBC. In addition to identifying the changes in the IBC, this class will assist the code user understand the reasons for the code changes. We will discuss over 120 changes, with special attention to those provisions addressing fire and life safety. Attendees will be presented with a number of significant changes to the structural and materials provisions in the review of chapters 16 through 23. Upon completion, participants will better understand:

- ♦ The significant differences between the 2003 and 2006 IBC.
- ♦ Changes in organization and code requirements.
- ♦ The impact and applicability of the significant changes.

Instructor: Robert Schutz

09-A2A Residential Plan Review, Part 2

8:00 AM to 5:00 PM 8 Hours Code Credit

Designed to provide a broad overview of the process for residential plan review, this is the second day of a two day course which will provide the basic steps involved in completing a comprehensive review of a residence. During this second day, we will conduct actual plan reviews based on the International Residential Code, to gain experience exercising the lessons learned during the previous day's session. The class will provide supervised practice, insuring code compliance in the homes in your jurisdiction. This seminar will most benefit building inspectors who wish to become plan reviewers, plan reviewers interested in professional development, and designers or Class C contractors who seek success in the plan review process. This is the companion class to **08-A2A Residential Plan Review, Part 1, offered November 8, 2006.**

Instructor: Steve Thomas



Friday, November 10, 2006

10-1A Radiant Heating Systems

8:00 AM to 12:00 PM 4 Hours DP Specialty Code Credit

During this session, Class DP, and C contractors, building inspectors, and designers will learn the necessary information to determine the principles of radiant heat transfer, primarily using floor panel systems, but including ceiling and wall panels. Participants will be able to:

- ♦ Determine the appropriate application, and installation techniques.

- ♦ Identify various heat plants, pumping strategies, and control strategies.
- ♦ Identify appropriate applications to successfully design a complete system.

Instructor: Larry Lang

10-1B Modern Hydronics Systems

1:00 PM to 5:00 PM 4 Hours DP Specialty Code Credit

This course will examine the modern hot water system, labeling the components and describing their significance and role in the system. We will examine proper piping techniques of primary-secondary, injection, and zoning systems, as well as discussing the differences between high temperature, low temperature, and multi-temperature systems.

Instructor: Larry Lang

10-2A Contractor Testing and Inspector Certification Examinations

8:00 AM to 12:00 PM 4 Hours Code Credit

Kansas Contractor testing, offered by the International Code Council. Limited categories of ICC Certification examinations will also be available for building inspectors.

You must complete the application located at the end of this brochure, and forward \$65 payment directly to ICC. The application must be received by ICC not later than October 31, 2006.

10-2B Contractor Testing and Inspector Certification Examinations

1:00 PM to 5:00 PM 4 Hours Code Credit

Kansas Contractor testing, offered by the International Code Council. Limited categories of ICC Certification examinations will also be available for building inspectors.

You must complete the application located at the end of this brochure, and forward \$65 payment directly to ICC. The application must be received by ICC not later than October 31, 2006.

10-3A Concrete Parking Lot and Paving Design

8:00 AM to 12:00 PM 4 Hours Code Credit

This is technical information for Class A, and B contractors, subcontractors, architects, engineers, code officials, and inspectors. The session covers sub bases and bases, thickness design, specifications, joint designs, mix designs, curing and more.

Instructors: Matthew Ross, Todd LaTorella, CPG

10-3B Pervious Concrete for Stormwater Mitigation

1:00 PM to 3:00 PM 2 Hours Code Credit

Pervious concrete is a relatively new concrete product in the Midwest region of the U.S. While it has been around for more than fifty years, it's a type of concrete most people know little about. Pervious concrete is widely used in California, Florida, the Carolinas, and most southern states for storm water mitigation. Why do we need storm water mitigation? As our population has increased, we have paved roads, parking lots, driveways and highways. We've also built skyscrapers, low-rise buildings, and homes. This construction has transformed the space where rainwater and melted snow percolated in the soil, naturally recharging the aquifer, into impervious areas. These impervious surfaces cause the rainwater to run off into creeks, streams, and rivers. This causes floods. In the Kansas City metro area we are familiar with Brush Creek, Indian Creek, and the Little Blue River, which all cause damage after major rainfall by flooding. Flooding is responsible for loss of property and lives. Pervious concrete is a Best

Management Practice for storm water mitigation, approved by the Environmental Protection Agency. The objective of the class is to provide the participants with an overview, showing how Pervious Concrete paving can assist mitigating the effects of storm water runoff. Participants learn about the material, it's applications and the advantages of using pervious concrete. This class will be of particular interest to Class A and B contractors, subcontractors, public works departments, engineers, architects, developers, inspectors, and planners.

Instructors: Bill Padfield, CPG

10-3C Lessons from Building Failure Investigations

3:00 PM to 5:00 PM 2 Hours Code Credit

Building failures are more common than most people realize. Often they are not made public or they get lost in the "noise" of the news bulletins surrounding a major storm event. Most failures should not have happened and the problem can often be traced to a breakdown in the engineering design and construction process. This presentation will focus on the lessons that contractors can learn from past failures. The projects represent both small and large failures from the past ten years that the authors have personally investigated. The presentation will be useful to Class A and B contractors so that they are aware of problem areas that should be avoided.

Instructors: Jeffrey Needham, Karen Hand

10-4A Hazardous (Classified) Locations & Requirements for Special Occupancies

8:00 AM to 12:00 PM 4 Hours DE Specialty Code Credit

This course is an eight-hour introduction and overview of the 2005 NEC requirements of Articles 500 through 516 and hazardous classified locations, with particular emphasis on motor fuel dispensing facilities. This course will provide introductory understanding of the NEC requirements as they pertain to classified locations. The supplied coursework, "Hazardous Locations, 1E, 2005 NEC" published by the International Association of Electrical Inspectors will provide a broad and in-depth study of hazardous locations and specific NEC requirements for the attendees, and provide valuable reference for attendees as "take-away" material. This course is well suited for all participants interested in gaining insight and understanding to the hazards and requirements of classified locations and their specific requirements governed under the 2005 NEC.

Instructor: Mike Weaver

10-4B Grounding and Bonding of Separately Derived Systems and More than One Building or Structure

1:00 PM to 5:00 AM 4 Hours DE Specialty Code Credit

The grounding and bonding requirements for separately derived systems and more than one building or structure, are detailed within this 4-hour introduction to grounding and bonding. This course begins at the beginning with an introduction and overview of the basic grounding and bonding requirements of the NEC, and then proceeds into the specific requirements necessary to achieve compliance for both separately derived systems and separate buildings or structures. The PowerPoint presentation and the coursework provided will ensure maximum exposure to the material covered and provide attendees future reference after the seminar via the detailed coursework published by IAEI. "Soares Book On Grounding and Bonding, 9th Edition".

Instructor: Mike Weaver

10-5A Residential Roofing: CARE Program

8:00 AM to 12:00 PM 4 Hours DR Specialty Code Credit

CARE stands for the Center for the Advancement of Roofing Excellence. CARE is a not-for-profit educational organization founded in 1999, dedicated to improving the industry through excellence in education designed for roofing professionals. This program will promote the CARE residential roofing education. Class DR, and C contractors, material suppliers, and building inspectors are the target audience for this class.

Instructors: Chris Mooney, CARE Staff

10-5B Commercial Roofing: CARE Program

1:00 PM to 5:00 PM 4 Hours DR Specialty Code Credit

CARE stands for the Center for the Advancement of Roofing Excellence. CARE is a not-for-profit educational organization founded in 1999, dedicated to improving the industry through excellence in education designed for roofing professionals. This program will promote the CARE commercial roofing education. Class DR, A, and B contractors, material suppliers, and building inspectors are the target audience for this class.

Instructors: Chris Mooney, CARE Staff

10-6A Marketing a Small Construction Business

8:00 AM to 12:00 PM 4 Hours Elective Credit

This half-day seminar discusses strategies for developing your business image, marketing hooks, and maximizing dollars for best results. We will discuss:

- ♦ Advertising.
- ♦ Sales.
- ♦ Developing your business image.

Instructor: Chuck Breidenstein

10-6B Design Build: One Key to Enhanced Customer Satisfaction

1:00 PM to 5:00 PM 4 Hours Elective Credit

This four-hour program takes a snapshot of the new service economy in construction. Discussion includes advantages and risks inherent in meeting the requirements of Total Customer Service through vertical skills integration and lateral cash flow opportunities for building businesses. Addition topics include business considerations on the cost/benefit side, copyright issues, risks for plan design, and marketing strategies for expanding your clientele.

Instructor: Chuck Breidenstein

10-7A Theory and Applications of Energy Efficient Delivery in 1 & 2 Family Dwelling Hot Water Systems

8:00 AM to 12:00 PM 4 Hours DP Specialty Code Credit

Residential building practice currently ignores the losses of energy and water caused by the poor design of hot water systems. These losses include: combustion and standby losses from water heaters, the waste of water (and energy) while waiting for hot water to get to the point of use; the wasted heat as water cools down in the distribution system after a draw; heat losses from and energy costs of recirculation systems and the discarded warmth of waste water as it runs down the drain. Drawing on research results from a variety of sources, this session will characterize hot water distribution systems, describe the current practices, assess the magnitude of the problem and the benefits that will come from solving it.

Instructor: Gary Klein

10-7B Theory and Applications of Energy Efficient Delivery in Multi-Family and Light Commercial Hot Water Systems

1:00 PM to 5:00 PM 4 Hours DP Specialty Code Credit

Multi-Family and Light Commercial building practice currently ignores the losses of energy and water caused by the poor design of hot water systems. These losses include: combustion and standby losses from water heaters, the waste of water (and energy) while waiting for hot water to get to the point of use; the wasted heat as water cools down in the distribution system after a draw; heat losses from and energy costs of recirculation systems and the discarded warmth of waste water as it runs down the drain. Drawing on research results from a variety of sources, this session will characterize hot water distribution systems, describe the current practices, assess the magnitude of the problem and the benefits that will come from solving it. This session will be of interest to Class A, and B prime contractors, as well as Class DP contractors.

Instructor: Gary Klein

10-A2A Multi-Family Construction Under the IBC and the IRC

8:00 AM to 5:00 PM 8 Hours Code Credit

This class provides an overview of the requirements for multi-family dwellings in the 2006 International Building Code, and townhouses in the 2006 International Residential Code. This type of construction may be the most difficult type of construction to build. This seminar discusses the design, construction, and inspection of these challenging occupancies including, building planning, fire-resistive rated construction, fire protection requirements and means of egress requirements. This course will be of great value to Class A, and B contractors constructing multi-family dwellings and Class C contractors building townhomes.

Instructor: Steve Thomas



Meet The Instructors

Blake Bennett

Blake Bennett has been involved in the construction industry for the last 15 years. He has worked in the Dry Mix Concrete industry during his tenure with Sakrete of KC. He spent eight years in the reinforcing industry with positions at Meadow Steel Products and Sheffield Steel, where he developed a strong background in residential, commercial, and civil construction practices. He then worked for three years with Fordyce Concrete as Sales Manager for commercial construction. During that time he became versed in mix design and ready-mix operations. Currently Blake works for Alpha-Omega Geotech, Inc. as their Technical Concrete Consultant and manages the daily operation in their concrete laboratory. He is well versed in both the specification and practical application of concrete. He holds a degree in Education from Fort Hays State University and is the father of two children.

Chuck Breidenstein

Chuck Breidenstein has been an active practitioner in the building industry since 1972. He has written and presented industry programs since 1979, including the National Remodeler's Shows and Midwest Builders show. He is an author of industry articles for various publications including *Professional Builder*, *Michigan Builder*, *Builder/Architect* and *Build Your Own Home* magazines. He has been involved in re-writes for Advanced DSP and Master Builder Negotiating program for NAHB's Home Builder's Institute. He is a presenter for NAHB Sales and Marketing CSP programs. He is a co-founder of Michigan State University NAHB Housing Education Director for Michigan Association of Home Builders for seven years. He has a degree in Secondary Education and Construction Management. He serves on several advisory boards and is an author and presenter of the State of Michigan approved programs for Building Code Official Continuing Education programs.

Concrete Promotional Group

A Greater Kansas City not-for-profit trade association, comprised of businesses and concerned individuals working toward a common goal: To Promote Quality Concrete Construction.

The CPG was established in 1986 by progressive concrete producers, contractors and supplier to improve public awareness of the advantages of concrete pavements. Today CPG focuses on all aspects of the concrete industry, including municipal projects, paving, parking lots, decorative staining/stamping, residential flatwork, ICF construction, aluminum form cast-in-place construction, site cast tilt up construction, specifications in relation to the industry, and working with other related associations.

John Duggan

John graduated from Iowa State in 1985 with a degree in Business Administration, majoring in Finance, as a member of the Dean's List. He received his law degree from Iowa College of Law in 1988 and was a member of the Iowa Law Review. In 1996 he founded Duggan Homes, named one of Kansas City's largest builders by the K.C. Business Journal. He is a dynamic speaker, well known for his expertise in the fields of Lien Law and residential construction.

John Hogan

John Hogan is currently president of J & D Lumber, Inc. where he Oversees the day to day operation of the Vivco Components division. He has 25 years experience in the prefabricated wood truss industry and has held his current position for 15 years. Mr Hogan has also held various industry leadership positions including president of the Missouri Truss Fabricators Association and currently serves on the board of directors for the Wood Truss Council of America. His experience is centered around residential and commercial truss sales and design with an emphasis on quality control and customer service.

Gary Klein

Gary has been intimately involved in energy efficiency and renewable energy since 1973. A quarter of his career was spent in Lesotho, the rest in the United States. Currently, he is an Energy Specialist at the California Energy Commission and the chair of the newly formed Task Force on Residential Hot Water Distribution Systems.

Bill Padfield

Bill is employed by Lafarge North America as the Ready Mix Division Senior Salesman. His expertise is in special projects. Bill is renown across the Midwest for his skill and success as a youth soccer league coach.

Robert Schutz, P.E., P.S., C.B.O.

Robert Schutz is currently the Manager of Instructors for the International Code Council (ICC) responsible for the oversight and quality of ICC's cadre of staff and contract instructors. He was the Chief Building Official for several central Ohio jurisdictions including ten years with the City of Powell as the CBO, City Engineer and Director of Public Services. Prior to that, Bob was the Chief Engineer for the Ohio Department of Health where he chaired the state's Plumbing Advisory Board and was a voting member of the Ohio Board of Building Standards. He has over 32 years experience in combat engineering with the U.S. Army, the Ohio National Guard and the Corps of Engineers. Bob is a civil engineer from Ohio Northern University with graduate studies in environmental law, land use planning, and public administration from the Ohio State University and the University of Southern California. He is a registered Professional Surveyor and Professional Engineer, is an ICC certified Chief Building Official, and holds Ohio certifications as Master Plans Examiner, Building Inspector, Mechanical Inspector, Plumbing Inspector, and Electrical Safety Inspector. He teaches structural IBC, all IRC, IPC and IMC code courses, and the legal aspects of codes and administrative topics.

Stephen Thomas

Mr. Thomas has 26 years experience in working with building codes including plan reviews, inspections, and administration. Starting a building code-consulting firm in 1999, his firm provides building code consulting services for governmental agencies and architectural firms, as well as educational seminars on building codes. Mr. Thomas has served on several ICBO committees and currently serves

on the ICC Means of Egress Code Development Committee. He has presented building code classes for the last 18 years and provides an interesting and engaging look at building codes.

Michael Weaver

Mike is a Principal of C&M Enterprises and 3 Dog Software in Salina, Kansas. He currently is a licensed master electrician, Past-President of M&W Electrical Co., and has over 31 years experience in the electrical construction industry. He is an experienced trainer-presenter of the National Electrical Code and Part VIII of the International Residential Code, a recognized presenter by the International Association of Electrical Inspectors, a member of the National Fire Protection Association (NFPA), and the International Association of Electrical Inspectors (IAEI). He currently is an IRC and NEC subject matter expert for the International Code Council, an advisor to the Electrical Technology Department of the North Central Kansas Technical College in Beloit, Kansas, a member of the City of Salina Accessibility Advisory Board, and of the Careers 2000 steering committee in Salina, Kansas. Currently, he is also a contributing developer for the Department of Homeland Security. He is a past board member of the of the Building Codes Advisory Board of Salina, Kansas, and a past judge of Careers 2000. He is also a Visual Basic and Excel software developer and a Microsoft Certified Excel Expert. Mike is the author of *Dwelling Electrical Service Feeder Calculations*, published by C and M Enterprises, the first in a series of expert electrical application and theory books.

David Utterback

Mr. Utterback is a Building Inspector employed by the City of Lenexa, Kansas. He is also the owner of Timber Tek Consulting, a firm specializing in building codes and inspections, providing educational seminars on wood frame construction and the building codes. He holds a Bachelor's Degree in Business Administration from Simpson College and a Bachelor's Degree from Iowa State University, where he studied residential architecture and design. He is a certified One and Two-Family Dwelling Combination Inspector with extensive experience in the building and construction industry. Over the past sixteen years, he has presented hundreds of seminars world wide on building codes and wood frame construction. He has been invited as a speaker at industry conventions and trade shows and has published articles for *Fine Homebuilding*, *Journal of Light Construction*, and *Builder* magazines. His article, "Field Guide to Common Framing Errors," has been referenced as industry standards in the book *Residential, and Light Commercial Construction Standards*.

Terry Zeimetz

Since 1996, Terry has presented more than two hundred continuing education programs on fenestration-related topics to architects and general contractors at local, state, regional, and national meetings and conventions in 25 states. He has been asked to contribute to articles that have been published in *Architectural Record*, *The Construction Specifier*, and *Building Operating Management*. During his career at Pella, Terry has assisted architects and general contractors with the specification and detailing of commercial window installation systems in large non-residential fenestration products for the non-residential market as well as creating drawing and specification tools for architects.

Mark your calendar now and plan to attend
The Spring 2007 Education Seminar
February 14, 15, 16, 2007
Presented by Contractor Licensing
In partnership with
Heart of America Chapter, ICC



**Candidate
Registration Form**

**North American Technician Excellence
Air Conditioning Excellence
Residential/Light Commercial HVAC Exams**

About You

Last Name First Name Middle Initial

Daytime Telephone Number Email Address

Mailing Address (street, apt. number)

City State Zip

About Your Employer

Company Name

Daytime Telephone Number Fax

Mailing Address

City State Zip

Testing Session Date:

November 8, 2006 1 p.m.

Testing Location:

Overland Park Convention Center
6000 College Blvd.
Overland Park, KS

Exam Information

Please mark each exam for which you are registering. See enclosed information sheet.

- Core Exam
- Air Conditioning Specialty
- Air Distribution Specialty
- Gas Heating Specialty
- Heat Pump Specialty
- Oil Heating Specialty

Technician Information

Please mark ONE technician type. See enclosed information sheet.

- Installation Technician
- Service Technician

Exam Cost

Core Exam: \$90.00 (ACCA-KC members)/\$130.00 (non-members)
\$90. Each Specialty Exam: \$110.00 (ACCA-KC members)/\$150 (non-members)

The 4-hour session is adequate time to complete a Core and Specialty OR 2 Specialty exams without Core

Fees and Payment

Test fees are determined by how many exams you register for.

- Core Exam @ \$90.00 (ACCA members) \$ _____
- Core Exam @ \$130.00 (non-ACCA members) \$ _____
- ___ Specialty Exam(s) @ \$110.00 each (ACCA members) \$ _____
- ___ Specialty Exam(s) @ \$150 each (non-members) \$ _____
- ___ Recertification Specialty Exam(s) @ \$110 each (members) \$ _____
- ___ Recertification Specialty Exam(s) @ \$150 each (non-members) \$ _____

TOTAL FEES DUE: \$ _____

Method of Payment

- Check or money order payable to ACCA-KC
- Company Purchase Order – PO Number _____

*Payment must be received prior to test date

Send completed form and fees to:

ACCA Kansas City Chapter
7804 Monrovia St.
Lenexa, KS 66216
Phone/fax: 913/631-2535
E-mail: accakansascity@aol.com

DEADLINE FOR REGISTRATION: October 19, 2006

Exam Registration Information

Step 1 - Tell Us About Yourself

Be sure to include a daytime telephone number so we can call you if we have questions.

Step 2 - Tell Us About Your Employer

Step 3 - What Testing Session Are You Registering For?

Please give day, month and year.

Step 4 - Is This Your First Time Taking a NATE Exam?

To achieve certification, you must take and pass both the Core exam and a Specialty exam. If this is your first time taking a NATE Air Conditioning Excellence HVAC exam, you should register for the Core exam and a Specialty exam of your choice.

Step 5 - Do You Need to Take the Core Exam?

Once you have passed the Core exam, you do not need to take it again. Please register for the Core exam if this is your first time taking a NATE Air Conditioning Excellence HVAC exam OR you did not pass the Core exam on a prior attempt.

Step 6 - What Specialty Do You Want To Earn Certification In?

Choose the specialty that matches the equipment and systems you work on, and for which you want to earn certification. Technicians who achieve certification in Heat Pumps are automatically considered certified in Air Conditioning and may order those credentials for a small additional fee.

Step 7 - What Kind of Technician Are You?

Check the box for the technician type that best describes you. Check only one box. Service technicians are automatically certified as Installation technicians and may order those credentials for a small additional fee.

Step 8 - Payment & Fees

Your total fee is determined by how many exams you are registering for. Payment is due with this form. Please submit by the due date noted.

How Many Certifications Should I Attempt At Once?

The decision as to how many certifications to attempt is up to the individual technician. NATE recommends that the first time you sit for certification, you should register for the Core exam and ONE Specialty exam. Then, when you wish to earn additional certifications,

you will have a better sense of how much time it takes you to complete each exam. Remember, each test session lasts four hours.

If you attempt to earn more than one credential in a single test session, and are unable to complete all of the exams, you are not eligible for a refund.

What If I Need to Cancel?

Candidates who cancel less than 14 days prior to the testing session will forfeit 10% of the total fee, to cover administrative costs. Candidates who fail to appear at a testing session will forfeit all fees.

Important Disclaimer

NATE reserves the right to cancel any test score, bar participating in the NATE program, or revoke the certification if NATE has any reason to question the validity of a test score, suspect misconduct at the test center, or suspect the reporting of fraudulent information on the *Registration Form*.

TECHNICIAN TYPES

Installation Technician

Primarily prepares the installation site (including removal of existing HVAC equipment), fabricates connections and assembles systems as specified in the installation instructions. Must be able to properly power up and set control positions to cycle equipment through primary heating, cooling and blower operation under on-site or off-site supervision of a service technician of applicable specialty. Installation technician takes HVAC specialized readings, such as temperatures, refrigerant circuit pressure and basic VOM electrical readings, with both operating and non-operating equipment, as required by others.

Service technician

Must be able to accomplish same tasks as an Installation technician, as well as be able to independently power up and adjust control settings to cycle equipment through all designed-for sequences. Must be able to acquire, evaluate and interpret such readings as may be necessary to determine the adequacy of, and qualify as acceptable, system operation to meet specifications. Service technician must be able to perform sufficient field diagnostic procedures as necessary to determine causes of inadequate performance and identify corrective actions as needed.



9/08/06

2006 Special Paper – Pencil Administration Kansas Standard Examination Application

Exam Candidate Information – Print legibly

Name: _____ Social Security Number (optional): _____

Street Address: _____ City: _____ State: _____ Zip: _____

() _____ () _____ () _____

Business Telephone Number Home Telephone Number Fax Number

E-mail address (optional): _____

? I have a copy of the 2006 Kansas Examination Candidate Bulletin. (If you do not have a copy of the Bulletin, go to www.iccsafe.org/contractor or call: 1-877-783-3926.)

CONTRACTOR EXAMINATION SITE AND DATE

<u>Exam Location</u>	<u>Exam Date</u>	<u>Exam Deadline</u>
(903) Overland Park Convention Center	November 10, 2006	October 31, 2006

CONTRACTOR EXAMINATIONS

Please check which examination you wish to register for.

- | | |
|---------------------------------|---|
| ? Master Electrician (554) | ? Master Mechanical (556) |
| ? Journeyman Electrician (558) | ? Journeyman Mechanical (559) |
| ? Master Plumber (562) | ? General Building Contractor A (550) |
| ? Master Plumber with Gas (557) | ? Building Contractor B (551) |
| ? Journeyman Plumber (561) | ? Residential Building Contractor C (552) |
| ? Roofing Contractor (553) | |

Important Notes

- Applications may be submitted by U.S. Mail, courier, facsimile, or online at www.iccsafe.org/contractor.
- Applications must be **received by ICC** by the deadline date and completed in its entirety in order to be processed.
- Examination fees are nonrefundable. Exceptions are outlined in the Candidate Bulletin.
- Photo identification, such as a drivers license, will be required for admittance to the examination.
- References needed for taking the exams can be purchased from ICC by calling 1-888-422-7233 or at www.iccsafe.org.
- You must report to the Overland Park Convention Center at 7:30 a.m. to be signed in prior to testing. It is your responsibility to make sure you show up for the exam on November 10, 2006 prior to the 8:00 a.m. start time.
- If you have a physical disability that prohibits you from taking an examination under standard conditions, you may request special arrangements. A special accommodations form and appropriate documentation must accompany this application. This form may be obtained by telephoning us at 1-877-783-3926.

2006 Fall Seminar Registration Form

INSTRUCTIONS

Pre-registration is required. All registration forms must be received in the Contractor Licensing Program office, not later than 5:00 PM, November 3, 2006. Walk-ins may not be admitted to classes.

FEES

For qualifying individuals, (the person with the experience, education, or test score used to license the company) of companies licensed by Johnson County, no fee payment is required. For building inspection employees employed by participating jurisdictions, no fee is required. Heart of America Chapter members who attended the Heart of America 2006 Annual Business, are entitled to three days of education, per year, free of charge.

For all other attendees, there is a fee of \$20 per education hour. Make checks payable to Johnson County Contractor Licensing.

Amount of Fee Enclosed

\$

Please Print Information Clearly

Name _____

Company Name _____

Address _____

City/State/Zip _____

Telephone _____

Course Number	Course Description

You may register on line at <http://contractorlicensing.jocogov.org>

You may fax your application, if no fee is required, to 913-715-2232

You may mail your registration form to 111 S. Cherry St., Suite 1051, Olathe, KS 66061