



Wisconsin Commercial Building Code Refresher *2022 Session Description and Registration Guide*

February 28 Sessions (Monday)

Session A (and E): Understanding Healthcare Facilities

Speaker: David Soens, PE, Life Safety Engineer, WI DHS

Description: Explore key code concepts for health care facilities, including the roles of federal and state authorities, plan reviews, and the state and international building codes. Topics include “defend in place”, occupancy, fire protection systems, means of egress, accessibility, NFPA 99, and more.

Session B: DSPS Administrative Update

Speaker: Jack A. Miller, Commercial Building Plan Examiner & Product Reviewer, WI DSPS

Description: Learn about Wisconsin Chapter 361 - administration and enforcement of Wisconsin's commercial building codes. Discussion includes the definition of a commercial building (scope of the code), local vs. state rules, petition for variances, plan review processes, construction supervision, inspections, and related topics.

Session C: 2015 IBC Mixed Occupancies

Speaker: Roger Axel, International Code Council

Description: Based on the provisions of IBC Section 508, this seminar addresses those special requirements applicable to buildings containing two or more occupancy classifications. The three mixed-occupancy options are presented along with examples and exercises that illustrate the proper application of the provisions. Specific topics include: • Occupancy classification • Mixed occupancy conditions • Accessory occupancies • Nonseparated occupancies • Separated occupancies • Multi-story conditions

Session D: Plan Review Insider

Speaker: Jennifer Zettler, Architect, Commercial Building Plan Reviewer, WI DSPS

Description: Avoid pitfalls in your plan submittal process! In this session you'll learn about the plan review process, what must be submitted, signing and sealing, denials and conditional approvals, and “must-haves” for your plan submittal set.

Session F: Electrical and Lighting Program Means of Egress Illumination: 2015 IBC 1008

Speaker: Randall Dahmen, PE, Commercial Building Plan Reviewer, WI DSPS

Description: Learn about the Wisconsin requirements for emergency egress lighting in commercial buildings. The session covers lighting under both normal and standby power, calculation of lighting paths, creating an emergency lighting plan checklist, and testing the installed system.

Session G: Multi-Family Housing Overview

Speaker: Jennifer Zettler, Architect, Commercial Building Plan Reviewer, WI DSPS

Description: Learn about classification of housing units (R-1, R-2, R-3 vs. UDC, R-4) and applicable code requirements. Topics include fire protection (smoke alarms, sprinklers, fire walls and separations), and accessibility issues (parking, doors, stairs, ramps, Type A and B units, and more.)

Session H: IBC Chapter 29: "Toilet Training", Sinks and Lavs

Speaker: Randall Dahmen, PE, Commercial Building Plan Reviewer, WI DSPS

Description: In this session, learn about the requirements for toilet facilities in Wisconsin. Requirements discussed include minimum number of facilities, enclosures, access, lavatories and surrounding materials, and alterations for applications such as child day care.

Session I: Ethics

Speaker: Laura Grossenbacher, PhD, College of Engineering, University of Wisconsin-Madison

Description: Attend the latest iteration of this popular Ethics series! Explore ethical issues affecting the engineering and architecture professions, beginning with a discussion conflicts of interest and leading to the topic of a recent high-profile building failure. The second half of the session will focus on an extended discussion of possible "progressive ethical collapses" that may have preceded the building collapse, with small group interaction. This 2-hour session requires sign-in on the day of attendance and satisfies state PE ethics requirements for license renewal.

March 1 Sessions (Tuesday)

Session J (and M): 2015 IECC Commercial Requirements for Mechanical & Envelope w/Wisconsin Amendments

Speaker: Randall Dahmen, PE, Commercial Building Plan Reviewer, WI DSPS

Description: Learn about the energy code requirements for commercial buildings in Wisconsin, including the applicable provisions of the International Energy Conservation Code (IECC) and Wisconsin amendments. Mechanical systems (HVAC, controls) and building envelope energy efficiency requirements are discussed.

Session K: eSLA Do's and Don'ts

Speaker: Jack A. Miller, Commercial Building Plan Examiner & Product Reviewer, WI DSPS

Description: This session is your insider guide to the DSPS Electronic Safety and Licensing Application (eSLA) online system. Learn about the switch from paper to electronic reviews, the current status of the system launch process, creating an account, and navigating your Dashboard and applications.

Session L: COMcheck and REScheck for Envelope Compliance

Speaker: Jennifer Zettler, Architect, Commercial Building Plan Reviewer, WI DSPS

Description: Learn how and when to use COMcheck and REScheck software to demonstrate thermal envelope compliance as an alternative to the prescriptive energy code path. Discover helpful “cheat sheet” items for roofs, walls, basements, ceilings, and fenestration.

Session N: 2015 IBC Use of Fire and Smoke Separations

Speaker: Roger Axel, International Code Council

Description: This seminar identifies the many and varied conditions identified in the IBC where fire and/or smoke separations are required. The discussion will focus on those required locations where fire-resistance-rated wall and horizontal assemblies, as well as smoke-resistive wall and horizontal assemblies are either required by the IBC or utilized by design professionals as alternative approaches to code compliance. Such locations include the selective or mandated use of fire walls, fire barriers, fire partitions, smoke barriers, horizontal assemblies and other separation elements.

Session O: Ethics

Speaker: Laura Grossenbacher, PhD, College of Engineering, University of Wisconsin-Madison

Description: This is a second opportunity to attend the Ethics session. It is repeated from Monday.

March 2 Sessions (Wednesday)

Session P (and R): Overview of the IMC w/Wisconsin Amendments

Speaker: Randall Dahmen, PE, Commercial Building Plan Reviewer, WI DSPS

Description: This session covers the requirements for design of mechanical building systems using the International Mechanical Code and Wisconsin amendments. Topics include HVAC design calculations, selection and installation of HVAC equipment, equipment room enclosure and clearances, roof-mounted equipment and vents, ventilation, air and heat exchangers, commercial kitchens, smoke detection and dampers, and more.

Session Q: 2015 International Fire Code Essentials - Hazardous Materials

Speaker: Roger Axel, International Code Council

Description: Unwanted fires injure and kill thousands annually and inflict a monetary impact on communities. Did you know that over 40 percent of the businesses that experience a fire never reopen because they lose their customer base? That is why fire code enforcement is an important public safety function. In this course, you will learn the basics of the fire code and how to properly apply the code to the most commonly encountered hazards. You will also review the general requirements for hazardous materials and some of the requirements for the proper storage and handling of compressed gasses and flammable and combustible liquids.

Session S: 2015 IFC High-Piled Combustible Storage

Speaker: Roger Axel, International Code Council

Description: The 2015 IFC High-piled Combustible Storage seminar provides a basic understanding of the hazards associated with high-piled combustible storage and introduces the participants to the provisions in Chapter 32 of the 2015 edition of the International Fire Code® (IFC®). This seminar places special emphasis on the classification of commodities and understanding the design criteria in NFPA 13 for storage.