

Agenda

Presented by Geza Szakats, PE, LEED AP

Overview

- Code layout
- Scope and purpose of code
- Application and equivalency
- Key definitions
- Occupancy groups
- Special requirements based on occupancy (high-rise and underground buildings, atrium, open parking structures, etc)

Construction Types and Fire-Resistance Ratings

- Learn about the building code and fire safety priorities
- What are the different building construction types
- How to perform allowable area calculations
- When to classify mixed occupancies as accessory, separated, or non-separated
- Learn about the fire separation requirements related to residential and institutional occupancies
- What are the differences between the various types of fire-resistance-rated walls
- Learn about the challenges of fire wall and “podium” construction
- How to use various options to protect floor openings

Means of Egress

- Learn about the means of egress requirements
- Identify the different components of the means of egress
- How to determine the occupant load
- How to determine the minimum required widths
- Learn about the different means of egress elements
- How to determine when fire-resistance-rated separations are required
- When exit signs and emergency means of egress illumination are required

Combustible Materials in Buildings

- Allowable combustible construction materials
- Exterior wall coverings
- Interior finishes
- Decorations and trims
- Building content
- Plastics

Fire Protection Systems

- Automatic fire sprinkler systems
- Standpipes
- Fire extinguishers
- Fire alarm and detection systems
- Smoke control systems
- Special hazard protection

Complying with the Fire/Life Safety Provisions of the International Building Code (2021)
Live, Interactive Webinar - Wednesday, December 13, 2023

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Learning Objectives

You’ll be able to:

- Learn** about the fire safety priorities of the 2021 International Building Code.
- Explore** occupancy groups and special fire protection/life safety requirements based on occupancy.
- Comply** with fire protection and life safety requirements for different types of construction.
- Meet** requirements for means of egress.
- Discuss** the use of combustible materials in wall coverings, interior finishes and trims.
- Review** requirements for sprinklers, fire extinguishers and fire detection and alarm systems.



HalfMoon Education Live Webinars

Complying with the Fire/Life Safety Provisions of the International Building Code (2021)

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Wednesday, December 13, 2023



- Discuss** the fire protection and life safety purposes of the IBC
- Explore** occupancy groups
- Examine** construction types and fire-resistance ratings
- Comply** with requirements for means of egress
- Learn** what combustible materials are allowed in buildings
- Meet** requirements for fire protection systems

Continuing Education Credits

- | | |
|---|---|
| Professional Engineers
7.0 PDHs | Architects
7.0 HSW CE Hours
7.0 AIA LU HSW |
| | International Code Council
.7 CEUs (Fire) |



Webinar Information

Log into Webinar 8:30 - 9:00 am CST	Break 12:15 - 12:45 pm CST
Morning Session 9:00 am - 12:15 pm CST	Afternoon Session 12:45 - 5:00 pm CST

Tuition
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Faculty

Geza Szakats, PE, LEED AP *Holmes*
Geza Szakats is the Holmes Project Director with expertise in hospitality, residential, commercial, and high-rise projects. He brings over 20 years of experience in fire protection engineering and performance-based code compliance. He is passionate about helping clients realize unique and ambitious building designs.

Mr. Szakats began his career in fire protection at a fire sprinkler contractor in 1998. After gaining extensive experience in designing and installing high performance fire sprinkler, standpipe and fire pump systems, he started working in the fire protection consulting field, first with Schirmer Engineering (currently Jensen-Hughes) and later with Arup in the San Francisco area, where he lead Arup's fire protecting engineering group in San Francisco. Currently, Mr. Szakats is leading the fire protection engineering/code consulting practice in the US for Holmes.

Mr. Szakats enjoys highlighting to his clients the many benefits various fire protection engineering approaches can provide for the built environment, including providing occupant and fire fighter safety and asset protection while helping to achieve aesthetic goals and the desired flexibility in building use.

Mr. Szakats is a recipient of the SFPE D. Peter Lund Award, a high industry honor recognizing his work advancing the fire protection engineering profession. He is also a longstanding member of the SFPE Subcommittee on PE Exam Development, keeping engineering licensure examinations aligned with established national standards.

Additional Learning

- Foundation and Retaining Wall Damage and Repair: Science, Materials and Techniques**
- Wednesday, November 29, 2023 | 9:00 am - 4:30 pm CST
- Handling Ethical Issues in Construction**
- Thursday, November 30, 2023 | 2:00 - 4:00 pm CST
- Practical Site Engineering: Science and Techniques**
- Friday, December 1, 2023 | 8:30 am - 3:30 pm CST
- High-Performance Commercial Building Envelope Design and Construction**
- Monday, December 4, 2023 | 9:30 am - 4:30 pm CST
- Moisture Intrusion in Construction**
- Tuesday, December 5, 2023 | 9:30 am - 5:00 pm CST
- Swimming Pool Design and Construction**
- Thursday, December 7, 2023 | 9:00 am - 12:20 pm CST
- Friday, December 8, 2023 | 9:00 am - 12:20 pm CST

Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers and 7.0 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Fire (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
7.0 HSW LUs (AIA)

- Designing and Constructing Vegetated Roofs**
- Friday, December 8, 2023 | 8:30 am - 3:30 pm CST
- Mechanical Forensic Engineering**
- Monday, December 11, 2023 | 8:30 am - 5:00 pm CST
- Sustainable Interior and Exterior Lighting Design**
- Monday, December 11, 2023 | 9:00 am - 4:00 pm CST
- Residential and Small Commercial Timber Frame Design and Construction**
- Monday, December 11, 2023 | 9:00 am - 4:30 pm CST
- Building Systems Science and Performance**
- Tuesday, December 12, 2023 | 10:30 am - 2:45 pm CST
- Wednesday, December 13, 2023 | 1:00 pm - 3:30 pm CST

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