

Agenda

Presented by Rich Walke

Fire Protection and Life Safety Design

- Applicable codes
- International Code Council (ICC) codes
 - National Fire Protection Association (NFPA) codes
 - State building codes
 - Local building codes and ordinances
- Scope and purpose of codes and ordinances

Overview of Fire Protection Concepts

- Fire event timeline
- Balanced fire protection

Fire-Resistance-Rated Construction

- Introduction
- International Building Code requirements
- Establishing fire-resistance ratings
- Methods of showing code compliance
- Permitted changes to designs

Openings in Fire-Resistive Construction

Through- and Membrane-Penetration Firestop Systems

- Definitions
- Standards
- International Building Code requirements
- Establishing F and T Ratings
- Key points about Firestop Systems

Fire-Resistant Joint Systems

- Definitions
- Standards
- International Building Code requirements
- Establishing assembly ratings
- Key points about Joint Systems

Opening Protectives

- Fire door assemblies
- International Building Code requirements
- Establishing fire protection ratings
- Fire window assemblies
- Glazing in fire door and fire window assemblies
- Types of fire-rated glazing
- IBC marking requirements for glazing
- NFPA 80 requirements

Duct and Air Transfer Openings

- Types of dampers
- International Building Code requirements
- Damper installation considerations

Online Resources for Demonstrating Code Compliance

- UL Product iQ

Engineering Judgements

Code Compliance Exercises

- Case studies

Fire-Resistive Construction Requirements of the International Building Code

Live, Interactive Webinar - Tuesday, April 27, 2021

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Learning Objectives

You'll be able to:

Identify applicable life safety codes, including International Code Council codes and National Fire Protection Association codes.

Identify key fire protection concepts, and explore the science of fire-resistance-rated construction.

Examine through- and membrane-penetration firestop systems and fire-resistant joint systems.

Explore fire doors and windows.

Consider the impact of duct and air transfer openings on fire resistance.

Use online resources for demonstrating code compliance, and participate in code compliance exercises.

HalfMoon Education Online Learning Fire-Resistive Construction Requirements of the International Building Code

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Examine fire protection and life safety design codes

Explore requirements for fire-resistant joint systems

Discuss fire protection concepts

Examine duct and air transfer openings

Identify how fire resistance ratings were established

Participate in code compliance exercises

Analyze key points about firestop systems

Continuing Education Credits

Professional Engineers
6.0 PDHs

AIA
6.0 LU | HSW

Architects
6.0 HSW CE Hours

International Code Council
.6 CEUs (Fire)



Faculty

Rich Walke *Technical Director of Creative Technology Inc.*
Mr. Walke provides consulting and training services for the fire protection and code enforcement communities. Previously, he had been employed by UL for 43 years, focusing on fire-resistance-rated construction and the protection of breaches in those assemblies. Prior to retiring from UL, Mr. Walke's responsibilities included providing fire protection-related technical support to the regulatory community, providing educational seminars, developing internet-based training programs, interacting on code change activities and serving as a liaison between the UL engineering staff and the regulatory community. Prior to that assignment, he was actively engaged in fire protection engineering for 29 years. Mr. Walke provided the supervisory and review activities of engineering investigations conducted on fire resistive construction, through-penetration firestop systems, joint systems, perimeter fire containment systems, fire-resistive electrical outlet boxes, electrical circuit protections systems, fire-resistive grease and air ducts systems, interior finish building materials, air duct materials and solid fuel heating appliances.

Webinar Information

| | |
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| Log into Webinar 8:00 - 8:30 am CDT | Break 11:30 am - 12:00 pm CDT |
| Morning Session 8:30 - 11:30 am CDT | Afternoon Session 12:00 - 3:30 pm CDT |

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- Tues, Mar 23, 2021 | 11:00 am - 2:15 pm CDT
- Wed, Mar 24, 2021 | 11:00 am - 3:15 pm CDT

Passive House: Planning and Design
- Tues, Mar 23, 2021 | 8:30 am - 4:30 pm CDT

Designing for Climate Resilience
- Thurs, Mar 25, 2021 | 11:00 am - 2:45 pm CDT
- Fri, Mar 26, 2021 | 11:00 am - 2:45 pm CDT

Composite Steel, Concrete and Mass Timber Buildings
- Fri, Mar 26, 2021 | 9:00 am - 4:25 pm CDT

Handling Ethical Issues in Construction Contracting
- Fri, Mar 26, 2021 | 10:00 - 11:00 am CDT

Complying with Fair Housing Act Accessibility Requirements
- Tues, Mar 30, 2021 | 8:30 am - 4:45 pm CDT
- Fire-Resistant Landscapes and Construction**
- Tues, Mar 30, 2021 | 10:00 am - 5:00 pm CDT

Special Inspections under the International Building Code Chapter 17
- Tues, Mar 30, 2021 | 9:00 am - 4:00 pm CDT

2021 International Residential Code: Residential Structural Construction
- Thurs, April 1, 2021 | 11:00 am - 3:30 pm CDT

IBC International Building Code 2021
- Thurs, April 8, 2021 | 8:30 am - 4:20 pm CDT

2021 International Residential Code: Residential Means of Egress
- Fri, April 9, 2021 | 11:00 am - 3:30 pm CDT

Designing for Accessibility under ADA Standards and 2021 IBC
- Mon, April 12, 2021 | 8:30 am - 4:30 pm CDT

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Fire-Resistive Construction Requirements of the International Building Code

- Online, Tuesday, April 27, 2021

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