

# Agenda

Presented by Bryan Hoskins, Ph.D.

## Fire Protection and Life Safety Design

Applicable codes

- International Fire Code
- National Fire Protection Association (NFPA) codes
- State building codes
- Local ordinances

Scope and purpose of codes and ordinances

Special occupancies: health care facilities and others

## Occupancy Classifications

General requirements and criteria

- Change of use and /or change of occupancy
- Hazard classifications

Life safety issues

Design specifications and scenarios

Evaluation and documentation

## Means of Egress

Exit access, discharge and other components

- Impediments to egress

Calculating and determining occupant loads

- Gross vs. net

Arrangement of exits

Equivalency discussion

## Fire Protection Features and Equipment

Building materials and components

Fire and smoke protection features

Fire detection, alarm and communication systems

Sprinkler systems

Special occupancies and equipment

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## Complying with Fire Protection and Building Codes

Live, Interactive Webinar - Friday, January 22, 2021



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## Learning Objectives

### You'll be able to:

**Receive** an overview of fire protection and life safety design codes, including the International Fire Code and National Fire Protection Association codes.

**Discuss** occupancy classifications, including hazard classifications.

**Calculate** and determine gross and net occupant loads.

**Discuss** fire detection, alarm, and communication systems.

**Explore** code compliance for new construction and for existing buildings undergoing a change of occupancy.



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## HalfMoon Education Online Learning Complying with Fire Protection and Building Codes

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**Learn** about fire protection and life safety design codes

**Explore** occupancy classifications

**Study** exit access and arrangement of exits

**Examine** fire protection features and equipment

**Review** case studies

### Continuing Education Credits

#### Professional Engineers

7.0 PDHs

#### Architects

7.0 HSW CE Hours

#### AIA

7.0 LU | HSW

#### International Code Council

.7 CEUs (Fire)



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# Faculty

## Bryan Hoskins, Ph.D. , P.E.

Assistant Professor of Fire Protection & Safety at Oklahoma State University

Dr. Hoskins earned his B.S. and M.S. degrees in Fire Protection Engineering from the University of Maryland. He also received his Ph.D. degree in Mechanical Engineering from the University of Maryland in 2011 with an emphasis on building egress.

Dr. Hoskins spent one year working for Arup on projects primarily dealing with life safety design and people movement. He then spent two years working for the National Institute of Standards and Technology working on projects dealing with building evacuations and emergency messaging. He is a registered fire protection engineer in the state of Oklahoma.

Professor Hoskins is the chair of the Society of Fire Protection Engineers (SFPE) working group that developed a research roadmap for fire protection and a member of the Human Behavior in Fire Task group for SFPE. He serves on multiple code and standards committees. He has authored more than 20 articles related to building evacuations and human behavior in fire.

# Webinar Information

Log into Webinar 8:00 - 8:30 am CST	Break 11:55 am - 12:55 pm CST
Morning Session 8:30 - 11:55 am CST	Afternoon Session 12:55 - 5:00 pm CST

## Tuition

**\$289** for individual registration

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- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
- Mail-in or fax the attached form to 715-835-6066
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**Cancellations:** Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

# Additional Learning

## Special Inspections under the 2018 International Building Code Chapter 17

- Mon., Jan. 11, 2021 | 7:30 am - 3:00 pm CST

## Passive House: Planning and Design

- Mon., Jan. 11, 2021 | 11:00 am - 2:15 pm CST

- Tues., Jan. 12, 2021 | 11:00 am - 2:45 pm CST

## Structural Forensic Engineering

- Wed., Jan. 13, 2021 | 10:00 am - 1:45 pm CST

- Thurs., Jan. 14, 2021 | 10:00 am - 1:45 pm CST

## Practical Site Engineering: Science & Techniques

- Thurs., Jan. 14, 2021 | 11:00 am - 3:15 pm CST

- Fri., Jan. 15, 2021 | 11:00 am - 2:15 pm CST

## Commercial Provisions of the IECC

- Thurs., Jan. 14, 2021 | 11:00 am - 3:30 pm CST

- Fri., Jan. 15, 2021 | 11:00 am - 2:00 pm CST

## Slab-on-Grade Concrete and Pavement for Private Facilities

- Tues., Jan. 19, 2021 | 11:00 am - 2:45 pm CST

- Wed., Jan. 20, 2021 | 11:00 am - 2:45 pm CST

## Mitigating Fire Risks through Landscape Design, Materiality, and Stewardship

- Thurs., Jan. 21, 2021 | 11:00 am - 1:00 pm CST

## Engineered Lumber Design and Construction

- Fri., Jan. 22, 2021 | 8:30 am - 5:00 pm CST

## Structural Design Loads under the ASCE 7 Standard

- Fri., Jan. 22, 2021 | 8:30 am - 5:00 pm CST

## Soil Mechanics, Bearing Capacity, and Slope Stabilization

- Mon., Jan. 25, 2021 | 8:30 am - 4:30 pm CST

## Project Management

### Fundamentals for Engineers

- Tues., Jan. 26, 2021 | 8:30 am - 4:00 pm CST

## International Building Code 2021

- Tues., Jan. 26, 2021 | 10:00 am - 2:30 pm CST

- Wed., Jan. 27, 2021 | 10:00 am - 1:30 pm CST

For more information and other online learning opportunities visit: [www.halfmoonseminars.org](http://www.halfmoonseminars.org)

## Continuing Education Credit Information

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in all states.

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The American Institute of Architects Continuing Education System has approved this course for 7.0 LU | HSW (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).

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (85%) on the quiz that follows the presentation (multiple attempts allowed).


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# Registration

## Complying with Fire Protection and Building Codes

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