

## Credit Information

These webinars are open to the public and are designed to qualify for 3.0 PDHs for professional engineers and 3.0 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 License No: CEA362), 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 these courses for 3.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved these events for .3 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 presentations. These courses 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:  
3.0 HSW LUs (AIA)

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Recordings of these webinars are available for purchase. See details online for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

## Fire Protection for Special Occupancies: Health Care Facilities & Industrial Facilities

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HalfMoon Education Inc.  
PO Box 278  
Altoona, WI 54720-0278



## Live, Interactive Webinars

### Fire Protection for Special Occupancies: Health Care Facilities

- Monday, March 18, 2024 | 9:00 am - 12:15 pm CST

### Fire Protection for Special Occupancies: Industrial Facilities

- Monday, March 18, 2024 | 1:00 - 4:15 pm CST

To register, view detailed presenter biographies,  
and see other learning opportunities, please visit:  
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## HalfMoon Education Live Webinars

# Fire Protection for Special Occupancies



### Fire Protection for Special Occupancies: Health Care Facilities

Monday, March 18, 2024 | 9:00 am - 12:15 pm CST

Credits: Professional Engineers: 3.0 PDHs  
Architects: 3.0 HSW CE Hours | AIA: 3.0 LU | HSW  
International Code Council: .3 CEUs (Fire)

### Fire Protection for Special Occupancies: Industrial Facilities

Monday, March 18, 2024 | 1:00 - 4:15 pm CST

Credits: Professional Engineers: 3.0 PDHs  
Architects: 3.0 HSW CE Hours | AIA: 3.0 LU | HSW  
International Code Council: .3 CEUs (Fire)

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## Fire Protection for Special Occupancies: Health Care Facilities

Monday, March 18, 2024 | 9:00 am - 12:15 pm CST

Tuition: \$159 per registrant

Credits: Professional Engineers: 3.0 PDHs | Architects: 3.0 HSW CE Hours  
AIA: 3.0 LU | HSW | International Code Council: .3 CEUs (Fire)

### Agenda:

- Defining health care occupancies
- Codes and standards for fire protection for health care facilities
  - NFPA 101 Life Safety Code 2021
  - NFPA 99 Health Care Facilities Code 2021
- Fire protection features
  - Construction and compartmentation
  - Flammable liquids and gases
  - Laboratories
  - Utilities
  - Waste and incinerators
  - Fire detection, alarm, and communication systems
  - Heliports
  - Sprinkler and fire extinguishing equipment
  - Storage
  - Maintenance and testing

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## Fire Protection for Special Occupancies: Industrial Facilities

Monday, March 18, 2024 | 1:00 - 4:15 pm CST

Tuition: \$159 per registrant

Credits: Professional Engineers: 3.0 PDHs | Architects: 3.0 HSW CE Hours  
AIA: 3.0 LU | HSW | International Code Council: .3 CEUs (Fire)

### Agenda:

- Defining industrial occupancies
- Codes and standards for fire protection for industrial facilities
  - International Building Code
  - NFPA 101 Life Safety Code 2021
  - NFPA standards for common systems/conditions at industrial facilities
- Fire protection features
  - Occupation and egress
  - Fire extinguishers
  - Sprinkler systems
  - Incidental high-hazard operations
  - General industrial occupancies
  - Special-purpose industrial occupancies
  - High-hazard industrial occupancies
  - Requirements for special materials, equipment, and systems

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## Additional Learning

### Forensic Engineering Concepts & Case Studies

- Friday, March 22, 2024 | 7:30 am - 4:00 pm CDT

### Foundation and Retaining Wall Damage and Repair: Science, Materials, and Techniques

- Friday, March 22, 2024 | 9:00 am - 4:30 pm CDT

### Electrical Basics for Building Professionals: Understanding and Calculating Electrical Loads

- Tuesday, March 26, 2024 | 9:00 am - 12:15 pm CDT

### Electrical Basics for Building Professionals: Residential Electrical Circuit Design

- Tuesday, March 26, 2024 | 1:00 - 4:15 pm CDT

### Complying with the Uniform Plumbing Code 2021

- Tuesday, March 26, 2024 | 9:00 am - 4:30 pm CDT

### Residential and Small Commercial Roof Design and Construction

- Thursday, March 28, 2024 | 9:00 am - 4:30 pm CDT

### 2021 International Residential Code: Electrical Systems

- Tuesday, April 2, 2024 | 12:00 - 4:30 pm CDT

### Commercial and High-End Residential Deck Design and Construction

- Wednesday, April 3, 2024 | 9:00 am - 4:00 pm CDT

For more information and other online learning opportunities visit:

[www.halfmoonseminars.org](http://www.halfmoonseminars.org)

## Faculty

### Scott Voelkerding PE, Osborn Engineering

Mr. Voelkerding is the Director of Fire and Life Safety at Osborn. He is technically experienced in many aspects of fire protection engineering including fire, building, and Life Safety Code consulting, hazardous materials storage, due diligence studies, and various design concepts for fire protection systems, fire alarm systems, sprinkler systems, smoke control systems, means of egress, and other life safety systems. Mr. Voelkerding has managed a range of projects from engineering studies to blank purchase agreements (BPAs) for fire protection services. He is a member of the National Fire Protection Association (NFPA) and an associate member of the Society of Fire Protection Engineers (SFPE). Mr. Voelkerding passed the Fire Protection Engineering PE Exam administered by the National Council of Examiners for Engineering and Surveying (NCEES) and practices engineering as a full-time fire protection engineer and life safety consultant.

### Joseph Hauf PE, Osborn Engineering

Mr. Hauf is Osborn's Director of Fire Protection and Life Safety Engineering. He brings over three decades of experience in fire and life safety. Mr. Hauf takes a trusted voice approach in the enforcement, design and contracting communities, bringing expertise with innovative performance-based design approaches and techniques. He has a deep understanding of the complex interrelationships between active and passive protection systems for holistic protection from fire through building code and testing standards compliance, including ICC, NFPA, ASTM, ANSI, ISO, EN and BS regulatory frameworks. Mr. Hauf is a recognized expert with fire resistance product approval, alternate means and methods of compliance, rational analysis, and special inspection services for smoke control systems.

### Sara Loomer Osborn Engineering

Ms. Loomer is Osborn's Manager of Fire Protection and Life Safety Engineering. She has over 15 years of experience in the fire and life safety consulting business. Ms. Loomer is experienced in multiple aspects of fire and life safety design, including both active and passive fire protection systems, with an emphasis on industrial projects. Experience includes fire protection design, equipment sizing, code compliance, fire protection and life safety audits, hazardous materials storage, combustible dust handling, and various design concepts for both buildings and processes. She has designed fire protection systems, conducted compliance audits, and prepared hazardous materials compliance plans and alternative compliance studies across various building occupancies. Ms. Loomer's industrial background includes design of wet-pipe, dry-pipe, pre-action, foam-water deluge, water curtains and fixed foam systems. She has also worked on fixed and automatic monitors, clean agent systems, and inert system as well as accompanying detection systems.

### Jonathan Cantwell PE, Osborn Engineering

Mr. Cantwell has practiced engineering since 2007. His experience includes code consulting and code enforcement as and authority having jurisdiction (AHJ) for compliance with fire and building provisions of ICC Building and Fire Prevention Codes, NFPA Codes and Standards. Mr. Cantwell specializes in rational analysis for smoke control systems design and smoke control special inspections testing. Depth of work includes large assembly, special amusement, hospitality, residential high-rise, healthcare occupancies and a large variety of fire protection systems including automatic sprinkler, fire alarm, hazardous materials, smoke control, special suppression, mass notification, and passive fire protection.