Designing for Fire Protection
Hauppauge, NY - Wednesday, May 20, 2020

You’ll be able to:

**Discuss** the science of fire and learn how it spreads in structures.

**Learn** how codes are written to mandate fire resistance ratings, ventilation, egress, and fire fighter access.

**Develop** a fire protection design approach using NFPA 13.

**Maintain** sprinkler systems and combat corrosion.

**Address** special design considerations for manufacturing facilities, industrial occupancies, and data centers.

**Handle** hazards and risks that are not addressed by building and fire codes.

---

**Anatomy of a Fire**
- History and science behind development of fire protection design
- Overview of fire growth and characteristics
- The role that building construction plays in fire behavior
- How codes are written to address fire resistance ratings, ventilation, egress, fire fighter access
- Case study showing integration with overall building life safety performance

**NFPA 13 Design Approach**
- Definition of responsible charge in the design of a sprinkler system
- Engineer vs. contractor responsibilities for the design of automatic sprinkler systems
- Design approaches for construction documents applied to NFPA 13
- Establishing levels of contractor competency for degree of project complexity
- Case study for application of design approaches to NFPA 13
- What is the right level of fire protection to optimize installation cost?

**What’s Eating Your Pipes? – How Corrosion Can Cause Your Sprinkler System to Fail and How to Fight it**
- Corrosion in fire protection systems is a growing problem
- Steps in combating the corrosion problem
- Various types of corrosion that can take place in fire protection systems
- Specific information on ways to size up the corrosion problem, overview of NFPA 25 specified maintenance requirements and techniques to mitigate corrosion
- Case studies of existing buildings to emphasize corrosion issues associated with the upkeep of sprinkler systems

**Hazard Evaluation vs. Risk Analysis – A Way of Thinking**
- Steps that code enforcement officials, engineers, and architects can take in dealing with hazards within structures that are not addressed by building and fire codes
- The difference between hazard evaluations and risk analysis
- Examples of quantifying hazards and risk along with implementing risk management plans
- A case study of a fire to emphasize the value of a hazard and risk analysis

**Manufacturing and Industrial Occupancies – The Specialized Knowledge You Should Have**
- Identifying the level of protection that codes may not prescribe
- Developing hazardous level classification
- How to apply performance-based requirements of the codes
- Developing customized detection and suppression design criteria
- Case studies

**Fire Protection for Data Centers**
- Outline the design professional’s responsibilities in the development of data center fire protection systems
- Technical details specified and defined in the Building Code and NFPA standards
- Developing customized detection and suppression design criteria

---

<table>
<thead>
<tr>
<th>Continuing Education Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects</td>
</tr>
<tr>
<td>6.5 HSW Continuing Ed. Hours</td>
</tr>
<tr>
<td>6.5 AIA LU</td>
</tr>
<tr>
<td>Professional Engineers</td>
</tr>
<tr>
<td>6.5 Continuing Ed. Hours</td>
</tr>
</tbody>
</table>

**International Code Council**
.65 CEUs (Building)

**Contractors**
Non-Credit Continuing Ed.

Enjoy HalffMoon Education's flexible scheduling and different program delivery options! In the event of health concerns, program may be offered as a live webinar or be rescheduled.
**Seminar Information**

**Hyatt Regency Long Island**

1717 Motor Parkway
Hauppauge, NY 11788

(631) 784-1234

**Tuition**

$299 for individual registration

$279 for three or more registrants from the same company at the same time.

Included with your registration: Complimentary continental breakfast and printed seminar manual.

**How to Register**

- Visit us online at www.halfmoonseminars.org.
- Mail-in or fax the attached form to 715-835-5066.
- Call customer service at 715-835-5900.

**Cancellations**:

Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a $59 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar. You may also send another person to take your place.

**Continuing Education Credit Information**

This seminar is open to the public and offers up to 6.5 CEUs in specialty area of Building (Preferred Provider No. J485). Visit www.halfmoonseminars.org to view complete AIA information under this course listing. Only full attendance is reportable to the AIA/CES.

The International Code Council has approved this course for .65 TECs in specialty area of Solar Photovoltaic Systems. Visit www.jointeducationresources.com for additional details.

This event is approved by the American Institute of Architects Continuing Education System (Regulations of the Commissioner 568.14(I)(2) and 6/6(5)(I)(2)).

The event is approved by the New Jersey State Board of Architects Continuing Education System for 6.5 continuing education hours. Visit www.njboardofarchitects.org to verify continuing education credits. Only full attendance is reportable to the AIA/CES.

**Compliance with the 2018 International Building Code**

**Compliance with the 2018 International Building Code, Part I**

Thurs., April 9, 2020, 11:00 AM - 1:30 PM CST

**Compliance with the 2018 International Building Code, Part II**

Thurs., April 9, 2020, 1:30 - 5:00 PM CST

**Compliance with the 2018 International Building Code, Part III**

Thurs., April 9, 2020, 11:00 AM - 12:30 PM CST

For more information and other online learning opportunities visit: www.halfmoonseminars.org/webinars/

**Additional Learning**

**Webinar Series**

- Distributed Batteries for Solar PV Systems, Part I
- Distributed Batteries for Solar PV Systems, Part II
- Distributed Batteries for Solar PV Systems, Part III

**Registration**

Hauppauge, NY - Wednesday, May 20, 2020

**How to Register**

- **Online:** www.halfmoonseminars.org
- **Phone:** 715-835-5900
- **Fax:**

  **Code:** 715-835-6066

**Mail:**

- **Halff Moon Education Inc., PO Box 278, Alton, WI 54720-0278**

**Complete the entire form. Attach duplicates if necessary.**

**Tuition**

(1) I will be attending the live seminar. Single Registrant - $299.00. Three or more registrants from the same company registering at the same time - $279.00 each.

**Checks:** Make payable to Halff Moon Education Inc.

**Credit Card**:

- **Card Type:** Mastercard, Visa, American Express, or Discover

**Credit Card Number:**

**Expiration Date:**

**Billing Address:**

- **City:**
- **State:**
- **Zip:**

**Cardholder Information:**

- **Name:**
- **Address:**
- **Phone:**
- **Email:**

**Date:**

© 2020 HEI #20 NYDFIREP 5 20 HPPG BA