Seminar Agenda

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 design 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 and risks within structures that are not addressed by the 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
Hazard evaluations and risk analysis for the evaluation of an existing building

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
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

Learning Objectives

You’ll be able to:

Examine how codes are written to address fire resistance ratings, ventilation, egress and fire fighter access.

Identify design approaches for construction documents applied to NFPA 13.

Learn how corrosion can cause sprinkler systems to fail and discuss techniques to fight it.

Explore steps for dealing with hazards and risks that are not addressed by the building and fire codes.

Review the level of protection needed for manufacturing and industrial occupancies, and explore fire protection for data centers.

Continuing Education Credits

Architects
6.5 HSW Contact Hours
6.5 AIA HSW Learning Units

Professional Engineers
6.5 PDHs
International Code Council .65 CEUs - Fire

Contractors
Non-Credit Continuing Ed.
Faculty

Douglas R. Nadeau, MSFPE, P.E., CFPS, LEED AP President of RAN Fire Protection Engineering, Inc. Mr. Nadeau, P.E., is the president of RA~N Fire Protection Engineering, P.C. and vice president of truU~E inspection Technologies. He is a licensed fire protection engineer, certified fire protection specialist, and LEED accredited professional. His education includes a Bachelor of Science degree in both Mechanical Engineering and Physics, along with a Master of Science degree in Fire Protection Engineering from Worcester Polytechnic Institute. Mr. Nadeau has worked as a lead design engineer for fire protection and plumbing systems in all types of buildings and uses for more than 20 years. He has been recognized as a leader in the field of fire protection engineering. Mr. Nadeau has been responsible for the complete design of fire protection and mechanical systems, including contract drawings and specifications as well as project coordination, administration, construction management, and cost estimating. He has conducted high risk evaluations for a variety of building code applications, fire modeling, and identification and resolution of hazardous conditions. Mr. Nadeau has a long history of experience with commercial, public, and institutional buildings. His work has involved the development of risk mitigation techniques and life safety systems specific to building design. He has conducted studies analyzing the protection of the facility property, the protection of occupants, and the redundancies necessary to provide continuity of function in the case of a fire emergency. Mr. Nadeau began his career in the heart of Boston, designing fire protection systems for high-rise buildings of both a prescriptive and performance-based nature. His work has evaluated the life safety of facilities inherent to the Uniform Building Code (UBC), Southern Building Code (SBC), and Building Officials and Code Administrators International (BOCA). His education has provided him with a foundation in national, state, and NFPA codes, which makes him an expert in fire protection code analysis and compliance review. His experience includes the analysis and design of life safety and emergency systems including architectural components such as fire alarm, sprinkler/standpipe, water spray, foam and agent systems. His experience with existing buildings has involved the documentation of as-built conditions for fire protection systems to evaluate system reliability. Mr. Crivello is licensed in both national and state and NFPA codes.

Christopher Crivello, P.E.

Fire Protection Project Engineer at RA~N Fire Protection Engineering, P.C. Mr. Crivello is a fire protection project engineer for RA~N Fire Protection Engineering, P.C., and a technical staff member at truU~E inspection Technologies. His education includes a Bachelor of Science degree in Mechanical Engineering from Rensselaer Polytechnic Institute, along with a Master of Science degree in Fire Protection Engineering from Worcester Polytechnic Institute. He has passed the Principles and Practices of Engineering Exam in Fire Protection Engineering to become a licensed Professional Engineer. Mr. Crivello has worked as a lead design engineer for fire protection systems in all types of buildings for the last six years. As a fire protection engineer, Mr. Crivello’s responsibilities include the complete design of fire protection systems, specializing in fire suppression and fire alarm design. The scope of his responsibilities includes contract drawings, specifications, and construction administration services. Mr. Crivello has worked on fire protection design on commercial, healthcare, industrial, and institutional buildings. Mr. Crivello has worked on fire protection systems for these types of buildings, including fire alarm, sprinkler/standpipe, water spray, foam and agent systems.

About the Seminar

Tuesday, March 21, 2017
Paddock Airport Hotel
2081 Post Road
Warwick, RI 02886
(401) 739-3000

Wednesday, March 22, 2017
Courtlandt at New Haven/ Wallingford
600 Northrop Road
Wallingford, CT 06492
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Tuition
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Continuing Education Credit Information

This seminar is open to the public and offers 6.5 HSW continuing education/contact hours to architects and 6.5 PDHs to professional engineers in all states with continuing education requirements.

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This seminar is approved by the International Code Council for 0.5 CEUs in the specialty area of Fire.

This course offers a non-credit continuing education opportunity to contractors. It has not been approved by any state contractor licensing entity for required continuing education credits.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available to the seminar will be mailed to participants within fifteen business days.

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Deep Foundations
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Webinar Series

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