

Agenda

Fire Science Basics and Structural Firefighting Practices Fire behavior, dynamics and combustion Behavior of fire in structures Reducing fire danger and damage by implementing structural firefighting principles	<i>R. Duval</i>
Complying with Building Codes and Fire Protection Requirements Background and development of building codes: • International Building Code (IBC) • International Residential Code (IRC) • International Existing Building Code (IEBC) Development of NFPA and life safety codes Adoption and enforcement of codes in Massachusetts	<i>J. Nunnemacher R. Duval</i>
Building Code Requirements for Fire Alarm Systems Occupancy specific fire alarm requirements Fire alarm system types	<i>B. Cronin</i>
Building Code Requirements for Fire Sprinkler Systems Occupancy specific sprinkler requirements Sprinkler system types	<i>B. Cronin</i>
Fire-Resistance Rated Construction Wall types Horizontal assemblies Opening protectives Penetrations	<i>B. Cronin</i>
Fundamentals of Means of Egress Principles of life safety Egress capacity Evaluating means of egress	<i>B. Cronin</i>

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Massachusetts Fire Protection Design and Construction

Live, Interactive Webinar - Thursday, July 25, 2024

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Learning Objectives

- You'll be able to:**
- Understand** the behavior of fire in structures.
 - Reduce** fire danger by implementing structural firefighting principles.
 - Comply** with IBC, IRC, IEBC and NFPA construction and safety codes.
 - Explore** fire alarm requirements and system types.
 - Review** code requirements for sprinkler systems and explore sprinkler system types.
 - Discuss** fire-resistant walls, horizontal assemblies and penetrations.
 - Meet** requirements for means of egress.



HalfMoon Education Inc.,
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Massachusetts Fire Protection Design and Construction

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| Discuss fire science and structural firefighting practices | Meet code requirements for fire alarm systems and sprinkler systems |
| Comply with building codes and fire protection requirements | Design for fire resistance |
| | Examine the fundamentals of means of egress |

Continuing Education Credits

- | | |
|---|---|
| Professional Engineers
6.0 PDHs | Architects
6.0 HSW CE Hours
6.0 AIA LU HSW |
| | International Code Council
.6 CEUs (Fire) |



Webinar Information

Online - Thursday, July 25, 2024	
Log into Webinar	Break
8:30 - 9:00 am EDT	12:15 - 12:45 pm EDT
Morning Session	Afternoon Session
9:00 am - 12:15 pm EDT	12:45 - 4:00 pm EDT

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Faculty

Robert Duval has been the fire investigator for the NFPA (National Fire Protection Association), which is based in Quincy, Massachusetts, since 1997. He is responsible for conducting investigations of technically significant incidents in order to gather lessons learned from each incident to apply those lessons to improving NFPA codes and standards. The investigation of these incidents includes documenting the emergency services response, the structure(s) involved as well as the events leading up to and following the incident. Mr. Duval was named the New England Regional Manager for NFPA in 2003. His region recently expanded to include New York and New Jersey and is now referred to as the Northeast Region. As regional director, he is responsible for outreach within the northeast states regarding code adoptions, and training. He also serves as a point of contact for stakeholders in the NFPA process; including the fire service, engineering and safety professionals. Mr. Duval was a member of the FEMA Building Performance and Assessment Team (BPAT) that studied the World Trade Center disaster in 2001. He recently reviewed the fire service response to the Merrimack Valley, Massachusetts gas over-pressurization incident of September 2018; a BESS explosion that seriously injured four firefighters in Surprise, Arizona in April 2019; as well as a fatal high-rise fire in Minneapolis, Minnesota in November 2019 for *NFPA Journal* magazine. Since 2012, he has served as the Chief of the Atwood Hose Fire Company in his hometown of Wauregan, Connecticut, where he has been a member since 1981. He has worked as an emergency services dispatcher in a regional fire department dispatch center in northeastern Connecticut since 1986. He also serves on the instructional staff of the Eastern CT Fire Training School. Mr. Duval is a Past President of the CT Fire Chiefs Association and a member of the CT Fire Service Hall of Fame, Class of 2021. He serves as a Communications Specialist for CT-TF1 – Connecticut State Urban Search and Rescue Task Force, and is also a member of the CT Region 4 Incident Management Team (IMT – 4). Mr. Duval holds a bachelor's degree in Mechanical Engineering Technology from Northeastern University in Boston.

Brad Cronin, CFPS has 27 years of fire service experience, most recently in a municipal fire department, and formerly rural volunteer department settings. He is currently vice president of Fire Protection for Strategic Code Solutions and serves as an instructor for several fire protection associations. He has also been an instructor and author for the National Fire Protection Association (NFPA). He teaches fire service representatives across the country for the National Fire Academy in the Technical Fire Prevention curriculum. He has experience performing fire code inspection and plans review as a licensed Fire Marshal for the State of Rhode Island. He serves on and chairs several NFPA Technical Committees and UL Standards Technical Panels. Mr. Cronin is the current chair of NFPA 25 and NFPA 303, NFPA 101, Residential Occupancies, and he is past chair of NFPA 150. He is a Technical Committee member on NFPA 13R & 13D, NFPA 20 and NFPA 909 & 914. Mr. Cronin is a Certified Fire Protection Specialist, has B.S. degrees from both Saint Michael's College and University of Cincinnati in Business Administration and Fire Safety and Engineering Technology, and has a master's degree in Public Administration from Anna Maria College.

H. Jacob Nunnemacher is a fire protection engineer (FPE) for the Office of the State Fire Marshal. His territory is south of the Massachusetts Turnpike. He is also a Fire Prevention Office/Fire Protection Engineer with the Auburn Fire Rescue Department. Mr. Nunnemacher received a bachelor of arts degree from Assumption College and a bachelor of science degree from Worcester Polytechnic Institute in 1995. He is a member of the New England Chapter of the Society of Fire Protection Engineers (SFPE). Prior to working for DFS he has worked for as a FPE for a large Texas Fire Department.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed architects. Engineers licensed in Massachusetts are not subject to a continuing education requirement. This course may qualify for credits in other states; please refer to specific state rules to determine eligibility.

The Massachusetts Board of Registration of Architects automatically accepts courses approved by the American Institute of Architects (AIA). The American Institute of Architects Continuing Education System has approved this course for 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 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 presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; 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:
6.0 HSW LUs (AIA)

Additional Learning

Moisture-Resistant Buildings
- Thursday, June 20, 2024 | 10:00 am - 5:00 pm EDT

Designing for Accessibility under ADA Standards and IBC
- Friday, June 21, 2024 | 9:30 am - 5:30 pm EDT

Passive House Design and Construction
- Wednesday, June 26, 2024 | 10:00 am - 5:30 pm EDT

**Roadmap to Ethical Issues in Construction:
A Primer for Design Professionals**
- Tuesday, July 16, 2024 | 12:00 - 2:00 pm EDT

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