

Agenda

Presented by Ryan R. Roy, PE

Overview of Special Inspections

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|---|----------------------------------|
| General program guidelines | Special inspector qualifications |
| Testing and inspection agency accreditation | |
| Forms, schedules and agreements | Pre-construction meeting |
| Report distribution | |

Soil and Foundation Inspections

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|--------------------------|------------------|
| Existing soil conditions | Site preparation |
| Shallow foundations | Deep foundations |

Concrete and Masonry Construction Inspections

Concrete reinforcement, placement, testing and inspection
Curing concrete, hot- and cold-weather concrete
Prestressed and precast concrete
Masonry inspection frequency and material test methods
Mortar, grout, unit placement and reinforcement

Steel Inspections

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|--------------------|--------------------------------|
| Shop fabrication | Welds |
| Bolted connections | Pre-engineered metal buildings |

Wood, Cold-Formed Steel, Wind and Seismic Design

AWC and AISI publication references in Code
Wood and CFS material standards, fasteners and connections
Lateral framing inspection practices
Seismic resistance/isolation systems

Exterior Insulation/Finishes and Fire Resistance/Smoke Control

Exterior insulation and finish systems
Fire resistant materials and sprayed fire-resistive material
Smoke control

Material Standards and Load Tests

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|--|-----------------------------|
| Design strength of materials and alternative test procedures | |
| In-situ load tests | Pre-construction load tests |

Ethics, Non-Conformances and Final Reports

Inspector authority, conflicts and “soft skills”
Discrepancy documentation, tracking and resolution
Final report, required documentation and distribution

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Massachusetts Special Inspections under the IBC Chapter 17

Live, Interactive Webinar - Wednesday, January 26, 2022

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Learning Objectives

You'll be able to:

Identify the qualifications necessary to be a special inspector.

Analyze inspection and testing of concrete and masonry.

Examine requirements for steel fabrication, bolted connections and welding.

Review inspection practices for wood structural elements and connections.

Examine requirements for fire-resistant materials.

Study material standards and review load testing procedures.



HalfMoon Education Live Webinars

Massachusetts Special Inspections under the IBC Chapter 17

Live, Interactive Webinar - Wednesday, January 26, 2022



Explore special inspection guidelines specific to the state of Massachusetts

Analyze special inspection requirements for soil and foundations, concrete and masonry, steel, wood construction, fire-resistant materials and exteriors

Examine wind and seismic resistance inspections

Discuss material standards and load tests

Consider ethics, non-conformances and documentation requirements

Continuing Education Credits

Professional Engineers

7.0 PDHs

International Code Council

.7 CEUs (Building)

Architects

7.0 HSW CE Hours

7.0 LU | HSW

AIA
Continuing
Education
Provider



Faculty

Ryan R. Roy, PE *Whitestone Associates, Inc. – Southborough, MA*
Mr. Roy is a licensed professional engineer in 13 states and the District of Columbia and he has managed projects throughout the Northeastern and Mid-Atlantic regions of the United States for over 25 years. As a regional manager and principal, Mr. Roy manages Whitestone’s Rocky Hill, Connecticut, and Southborough, Massachusetts, offices and is responsible for Whitestone’s New England operations. Mr. Roy has extensive experience in geotechnical engineering, construction materials testing and inspection, and environmental services. Mr. Roy has completed hundreds of forensic investigations of deficient construction materials and techniques. Investigations have included review and testing of materials ranging from soils, concrete, pavement, and groundwater to building materials such as structural steel, vapor barriers, and spray-foam insulation. Additionally, Mr. Roy has served as an expert witness on many cases where construction deficiencies have led to litigation.

Webinar Information

| | |
|---|---|
| Log into Webinar 8:00 - 8:30 am EST | Break 12:30 - 1:30 pm EST |
| Morning Session 8:30 am - 12:30 pm EST | Afternoon Session 1:30 - 5:00 pm EST |

Tuition
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Additional Learning

- Managing Construction Projects**
- Wed, Dec 29, 2021 | 8:30 am - 4:30 pm CST

Parking Structure Design, Construction, and Maintenance
- Wed, Dec 29, 2021 | 8:00 am - 3:30 pm CST

Structural Forensic Engineering
- Wed, Dec 29, 2021 | 10:00 am - 1:45 pm CST
- Thurs, Dec 30, 2021 | 10:00 am - 1:45 pm CST

Residential and Small Commercial Solar Photovoltaic Energy Systems
- Thurs, Dec 30, 2021 | 8:30 am - 4:00 pm CST

Designing for Accessibility under ADA Standards and 2021 IBC
- Tues, Jan 11, 2022 | 8:30 am - 4:30 pm CST

The 2021 Minimum Standards for ALTA/NSPS Land Title Surveys
- Wed, Jan 12, 2022 | 8:30 am - 2:30 pm CST

Technical Writing Workshop for Design Professionals
- Wed, Jan 12, 2022 | 8:30 am - 5:00 pm CST
- IRC Significant Changes – Chapters 1-10**
- Thurs, Jan 13, 2022 | 11:00 am - 3:30 pm CST

Handling Ethical Issues in Construction
- Tues, Jan 18, 2022 | 3:00 - 5:00 pm CST

Timber Frame Design and Construction
- Wed, Jan 19, 2022 | 9:00 am - 4:30 pm CST

Construction Cost Estimating
- Thurs, Jan 20, 2022 | 8:30 am 4:30 pm CST

IRC Significant Changes – Chapters 11-44
- Thurs, Jan 20, 2022 | 11:00 am - 3:30 pm CST

Current Issues in Landscape Architecture for the Eastern US
- Fri, Jan 21, 2022 | 7:30 am - 4:00 pm CST

Erosion and Sediment Control
- Tues, Jan 25, 2022 | 8:30 am - 5:00 pm CST
- For more information and other online learning opportunities visit:
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Continuing Education Credit Information
This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in Massachusetts.

Engineers and architects seeking continuing education credit in other states will be able to claim the hours earned at this webinar, in most cases. Refer to specific state rules to determine eligibility.

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 Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Registration

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Live, Interactive Webinar - Wednesday, January 26, 2022

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|--|--------------|---|
| How to Register | | Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me. |
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