

Agenda

Presented by Vincent F. Fratinardo, P.E., S.E., RRC

The New Chicago Building Code: 70 Years in the Making

(fully effective in August 2020)

Navigating the New Code:

- Title 14A – Administrative Provisions
- Title 14B – Chicago Building Code
- Title 14F – Chicago Fire Code
- Title 14N – Chicago Energy Conservation Code
- Title 14R – Chicago Building Rehabilitation Code
- Title 14X – Chicago Minimum Requirements for Existing Buildings

New materials and building systems

Expended requirements for sprinklers

Timeline for implementation

Building Height and Area: Modifications and Limitations

Occupancy classifications and uses

Separated and nonseparated mixed occupancies

Accessory occupancies

Incidental uses

Area factor increases

Yards and courts for light and ventilation

Room dimensions for dwelling units

High-rise building modifications

Construction Types and Fire Resistance Ratings

Use of combustible materials

Exterior walls and fire separation distances

Wall terminologies

Projections for walls and concealed spaces

Calculated fire resistance

Opening protection

Means of Egress and Occupancy

Adopted terms: Exit, exit access, exit discharge

Occupant loads

Concentrated business use areas

Number of exits

Stairways modifications

Corridor width and fire resistance

Assembly-type uses

Structural Design

Construction documents

General design requirements

Risk categories

Loads

Seismic design

Special inspections

Soils and foundations

Materials

Chicago Energy Conservation Code

Commercial compliance (ASHRAE 90.1-2016)

Building envelope

Building mechanical systems

Electrical power and lighting

Total building performance

Existing buildings, additions and alterations

Residential compliance

• Thermal envelope

• Roofs

• Mechanical ventilation

• Whole house systems

Preserving Existing Buildings

IEBC/Rehabilitation provisions

Prescriptive method

Work area compliance method

• Level 1 • Level 2 • Level 3

Performance method

Repairs

Historic buildings

Fire escapes

Residential occupancies

Minimum requirements for existing buildings

Chicago Building Code Update

Live, Interactive Webinar

Wednesday, September 23, 2020

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Learning Objectives

You'll be able to:

Comply with the new Chicago Building Code, which took effect in August and includes provisions for fire protection, energy conservation, building height/area, and minimum requirements for existing buildings.

Comply with provisions for the use of combustible materials and the construction of fire-resistant walls.

Follow code requirements for means of egress including number of exits, occupant loads, stairways and corridor width.

Implement code requirements for structural design, including foundations, loads, seismic design and materials.

Comply with code requirements for energy-conserving mechanical systems, building envelopes, power systems and lighting.

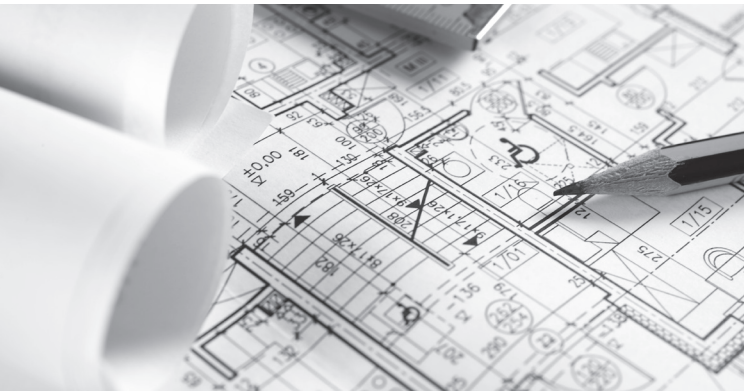


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HalfMoon Education Online Learning

Chicago Building Code Update

Live, Interactive Webinar - Wednesday, September 23, 2020



Examine the new Chicago Building Code which took full effect in August 2020

Learn about building height and area

Discuss construction types and fire resistance ratings

Comply with structural design requirements

Review the Chicago Energy Conservation Code

Explore the process of preserving existing buildings

Continuing Education Credits

Professional Engineers

7.0 PDHs

International Code Council

.7 CEUs (Building)

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Vincent F. Fratinardo, P.E., S.E., RRC

Mr. Fratinardo is a civil/structural engineer and roof consultant. His over 20 years of experience includes civil and structural engineering analysis, design, construction administration, field investigation, and project management, and 13 years of experience specific to forensic engineering and the investigation and analysis of building damage and failures. Mr. Fratinardo has designed numerous new buildings, building additions, building renovations, and mechanical platforms and supports. He has designed and analyzed roof, wall and floor framing systems utilizing steel, concrete, masonry, and wood construction. Mr. Fratinardo has vast expertise in commercial, industrial, agricultural, municipal, educational and residential building damage investigations, including on-site investigations after 25 different tornado events, and Hurricanes Irene, Sandy, Matthew, Harvey, Irma, Maria and Florence. He has legal experience in depositions, arbitration hearings and trials. He has prepared and performed numerous continuing education presentations, including on an array of topics in forensic engineering, structural engineering and building codes for HalfMoon Education Inc., in multiple states since 2014. Mr. Fratinardo graduated from Michigan State University with a bachelor of science degree in Civil Engineering, and he also holds a master of engineering degree in Civil Engineering from Texas A&M University. He is a registered professional engineer in multiple states and a licensed structural engineer in Illinois.

Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 11:40 am - 12:10 pm CDT
Morning Session 8:30 - 11:40 am CDT	Afternoon Session 12:10 - 4:20 pm CDT

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This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in Illinois. Educators and courses are not subject to preapproval in Illinois.

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 and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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Additional Learning

Special Inspections under the International Building Code Chapter 17 (IBC 2015)

- Wed. August 19, 2020, 9:00 am – 1:30 pm CDT
- Thurs., August 20, 2020, 9:00 am – 12:15 pm CDT

Introduction to GNSS Surveying

- Thurs., August 20, 2020, 10:30 am - 1:45 pm CDT
- Fri., August 21, 2020, 10:30 am - 2:15 pm CDT

Introduction to HEC-HMS Modeling

- Thurs., August 20, 2020, 8:30 am – 5:00 pm CDT

Air-Source Heat Pumps for Energy Efficiency

- Thurs., August 20, 2020, 11:00 am – 2:15 pm CDT
- Fri., August 21, 2020, 11:00 am – 3:15 pm CDT

Introduction to HEC-RAS Modeling

- Mon., August 24, 2020, 11:00 am – 3:00 pm CDT
- Tues., August 25, 2020, 11:00 am – 3:30 pm CDT

Practical Use of the FMEA as a Design Tool

- Tues., August 25, 2020, 11:00 am – 3:15 pm CDT
- Wed., August 26, 2020, 11:00 am – 3:15 pm CDT

Drones in Construction

- Thurs., August 27, 2020 , 10:00 am – 4:50 pm CDT

Energy-Efficient, Sustainable Roofs

- Thurs., August 27, 2020, 11:00 am – 2:30 pm CDT
- Fri., August 28, 2020, 11:00 am – 2:30 pm CDT

Construction Cost Estimating

- Tues., Sept. 1, 2020 | 8:30 am - 3:50 pm CDT

Deep Foundation Design and Construction

- Wed., Sept. 9, 2020 | 7:30 am - 3:30 pm CDT

Restoration of Natural Habitats: Including Prairies, Wetlands and Forests

- Thurs., Sept. 10, 2020 | 8:30 am - 3:50 pm CDT

Basics of Structural Steel

- Fri., Sept. 11, 2020 | 9:00 am - 5:00 pm CDT

2018 International Residential Code: Structural Design

- Fri., Sept. 11, 2020 | 11:00 am - 3:30 pm CDT

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Registration

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How to Register	
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