

HalfMoon Education Live Continuing Education Webinars

Reinforced Concrete Building Design and Construction

Online | Wednesday, Decemeber 20, 2023 | 8:30 am - 4:30 pm CDT

Credits:

Professional Engineers: 7.0 PDHs

Architects: 7.0 HSW CE Hours AIA: 7.0 LU|HSW

International Code Council: .7 CEUs (Building)

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG

AIA
Continuing
Education
Provider



Reinforced Concrete Building History, Failures, and Systems

History of concrete construction
Concrete failures
Systems for reinforced concrete buildings:
• Concrete floor systems • Concrete framing systems
Formwork
Construction costs

Codes, Standards, Loads, and Analysis/Design

Codes governing concrete construction
Referenced standards (ACI 318 – “Building Code Requirements for Structural Concrete”)
Loads (gravity, wind, seismic)
Process of structural analysis and design for strength and serviceability

Reinforcement

Steel reinforcement properties; durability
Reinforcement details
Embedment and development length

Designing Building Components

Beams Columns Walls

Designing More Building Components

Diaphragms (one-way slabs, two-way slabs)
Foundations

Joints, Connections and Anchors

Beam-column and slab-column joints
Corbels/brackets Anchoring to concrete

Case Studies and Examples

Construction documents and special inspections
Applications for construction in seismic zones
Examples of completed buildings

Presented by Cliff Bishop

Licensed Professional and Structural Engineer, at Exponent, Inc.
Dr. Cliff D. Bishop specializes in the holistic evaluation of building and bridge structures. While at Exponent, he has led investigations of concrete, steel, wood, and masonry structures and their interior finishes and building envelope components that were damaged as a result of design/construction defects, construction procedures, and natural hazards, such as wind, floods, hurricanes, and earthquakes. These investigations typically include on-site testing and documentation, analysis of structural and non-structural component response, interpretation and application of building codes and standards, and identification of the most appropriate repair. Dr. Bishop often employs sophisticated engineering analysis and state-of-the-art research in support of these investigations. His sound engineering advice provides the basis necessary for building owners, insurers, and other stakeholders to make informed decisions.

Tuition

\$319 for individual registration.
\$289 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

Can't Attend? Order the Webinar as an On-Demand Package!

Recordings of this webinar are available for purchase. See details online for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers and 7.0 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (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).

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 may not be eligible for the same credits as the live presentation; 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:
7.0 HSW LUs (AIA)

Learn More and Register:

www.halfmoonseminars.org

Customer Service (715) 835-5900 Ext. 1

or scan here

