

Agenda

Presented by Collins Ofori-Amanfo, P.E.

Distinguishing between Construction Defects and Failures

- Defining defects
- Causes of defects: problems with design, materials and/or construction
- Defining failures
- Causes of failures: deterioration, unintended use, “Acts of God”

Examining Common Defects and Failures

- Analyzing defects and failures for methodology and causality
- Site selection and engineering
- Building design
- Foundation design and construction
- Design and construction of floors, walls and roofing
- Exploring defects and failures in mechanical and electrical systems

Adopting Practices that Reduce Defects and Failures

- Reviewing proposed use and preparing construction documents
- Complying with building codes and standards
- Choosing materials and construction techniques
- Construction site communication, coordination and other practices that minimize problems
- Monitoring construction
- Quality assurance and quality control
- Correcting problems before project completion
- Building commissioning, operation and maintenance

Preventing and Resolving Disputes Generated by Defects and Failures

- Identifying parties with potential liability
- Understanding theories of liability and defenses to liability
- Acting to remediate defects/failures
- Participating in conflict resolution procedures:
 - Mediation, arbitration, litigation
- Reviewing types of damages and how they are calculated
- Insurance coverage issues

Handling Ethical Issues Associated with Defects and Failures

- Understanding the parties’ roles and relationships
- Understanding the liability and indemnification provisions in construction documents
- Duty to raise potential safety, durability issues
- Making warranties and guarantees
- Working outside areas of competence

Preventing and Addressing Construction Defects and Failures

Live, Interactive Webinar - Tuesday, October 13, 2020



HalfMoon Education Inc.
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Learning Objectives

You’ll be able to:

- Distinguish** between construction defects and failures.
- Identify** common causes of defects and failures, including design problems, suspect materials, construction materials, deterioration, unintended use and “Acts of God.”
- Reduce** defects and failures by reviewing proposed uses of structures, complying with building codes and standards, monitoring construction practices, and correcting problems before project completion.
- Participate** in the resolution of disputes that are caused by defects and failures.
- Identify** and avoid ethical issues associated with defects and failures.



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HalfMoon Education Online Learning Preventing and Addressing Construction Defects and Failures

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- Analyze** the differences between construction defects and failures
- Examine** and discuss common defects and failures
- Identify** how to use materials and construction techniques that reduce defects and failures
- Prevent** and resolve disputes that are generated by defects and failures
- Evaluate** ethical issues associated with construction defects and failures

Continuing Education Credits

Professional Engineers 7.0 PDHs	AIA 7.0 LU HSW
Architects 7.0 HSW CE Hours	International Code Council .7 CEUs (Building)



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Collins Ofori-Amanfo, P.E. Owner and Principal Engineer at Collins Forensics LLC

Mr. Collins O.Y. Ofori-Amanfo, P.E., is a Board Certified Diplomate Forensic Engineer and is the owner and principal engineer of Collins Forensics LLC. Prior to establishing Collins Forensics LLC, Mr. Ofori-Amanfo previously worked for many years at Wiss, Janney, Elstner Associates, Inc. (WJE), Illinois Department of Transportation and Twin City Testing Corporation. He received his B.S. degree in Civil Engineering from the University of Science and Technology in Ghana and his M.S. degree in Structural Engineering from the University of Minnesota, Minneapolis. Mr. Ofori-Amanfo is a registered professional engineer in Minnesota, Wisconsin, Iowa, North Dakota, Nebraska and Illinois. His broad-based experience includes investigation of collapsed/failing structures, investigation of construction defects and resulting damage, investigation of condensation in building envelopes, evaluation of roof and wall leakage, field water testing of windows and waterproofing systems, and assessment of wind and hail damage to buildings. His work also involves giving expert testimony and assisting attorneys in resolving disputes over construction and materials-related problems. Mr. Ofori-Amanfo has been an instructor at HalfMoon Education, Inc.’s structural forensic engineering continuing education seminars in Kentucky, North Carolina, North Dakota, South Dakota, Minnesota, Texas, Iowa and Nebraska.

Webinar Information

Log into Webinar 8:00 - 8:30 am CDT	Break 11:45 am - 12:45 pm CDT
Morning Session 8:30 - 11:45 am CDT	Afternoon Session 12:45 - 5:00 pm CDT

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Additional Learning

Project Management Fundamentals for Engineers
- Tues., Sept. 29, 2020 | 8:30 am - 4:00 pm CDT

Passive House: Planning, Design and Construction
- Tues., Sept. 29, 2020 | 9:30 am - 5:00 pm CDT

Special Inspections under the International Building Code Chapter 17
- Tues., Sept. 29, 2020 | 8:30 am - 4:00 pm CDT

Structural Forensic Engineering
- Tues., Sept. 29, 2020 | 8:30 am - 4:30 pm CDT

Site Design
- Wed., Sept. 30, 2020 | 7:30 am - 4:00 pm CDT

Stormwater Best Management Practices
- Wed., Sept. 30, 2020 | 8:30 am - 5:00 pm CDT

Geodetic Datums: Fundamentals and New Developments
- Thurs., October 1, 2020 | 10:30 am - 3:15 pm CDT
- Fri., October 2, 2020 | 10:30 am - 2:45 pm CDT

Continuing Education Credit Information

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states.

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), North Carolina (S-0130), and North Dakota. 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 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

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Recordings of this webinar are available for purchase. See registration panel 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.

Seismic Design and Construction
- Thurs., October 1, 2020 | 11:00 am - 3:00 pm CDT
- Fri., October 2, 2020 | 11:00 am - 2:30 pm CDT

Maintaining Existing Buildings under the 2018 International Fire Code
- Mon., October 5, 2020 | 10:00 am - 2:30 pm CDT
- Mon., October 12, 2020 | 10:00 am - 2:30 pm CDT

Designing for Accessibility under ADA Standards and IBC
- Tuesday, October 6, 2020 | 8:30 am - 12:15 pm CDT
- Wed., October 7, 2020 | 8:30 am - 12:15 pm CDT

2018 International Residential Code: Residential Means of Egress
- Fri., October 9, 2020 | 11:00 am - 3:30 pm CDT

Construction Cost Estimating and Value Engineering
- Wed., October 14, 2020 | 8:30 am - 3:20 pm CDT

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Registration

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