

Agenda

Presented by: Justin Biller, P.E., MCP, CFPS, CLSS-HC

Fire Protection and Life Safety Design

Applicable codes

- International Fire Code
- National Fire Protection Association (NFPA) codes
- North Carolina building codes
- Local ordinances

Scope and purpose of codes and ordinances

Special occupancies: health care facilities and others

Occupancy Classifications

General requirements and criteria

- Change of use and /or change of occupancy
- Hazard classifications

Life safety issues

Design specifications and scenarios

Evaluation and documentation

Means of Egress

Exit access, discharge and other components

- Impediments to egress

Calculating and determining occupant loads

- Gross vs. net

Arrangement of exits

Equivalency discussion

Case studies

Fire Protection Features and Equipment

Walls, signage

Fire detection, alarm and communication systems

Sprinkler systems

Complying with Fire and Building Codes
Greensboro, NC - Friday, September 20, 2019

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Learning Objectives

You'll be able to:

Learn about fire protection codes and life safety design in North Carolina.

Explore occupancy classifications.

Study exit access and arrangement of exits.

Examine fire protection features and equipment, including fire detection systems and sprinkler systems.

Review case studies of new construction and of occupancy changes for existing buildings.



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Enhance your understanding of fire protection and life safety design

Explore general requirements and criteria related to occupancy classifications

Understand the National Fire Protection Association (NFPA) and North Carolina state codes and standards

Learn about exit access, discharge and other components of means of egress

Discuss fire protection features and equipment

Continuing Education Credits

Professional Engineers

6.5 PDHs

Contractors

Non-Credit Continuing Ed.

Architects

6.5 HSW Contact Hours

6.5 AIA LU|HSW

International Code Council

.65 CEUs (Fire)



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Faculty

Justin Biller, P.E., MCP, CFPS, CLSS-HC *Emerson Graham + Associates, Charlotte, NC*
Mr. Biller is a faculty lecturer at the University of North Carolina Charlotte in the undergraduate program in fire and safety engineering technology and the graduate program in fire protection and safety management. Mr. Biller teaches an array of courses including fire and building codes, fire behavior and fire dynamics, human behavior in fire, fire protection systems and hydraulics, fire modeling and performance-based aspects of fire protection engineering design, fire prevention and public fire protection public policy.

Mr. Biller is owner and principal fire protection engineer of Emerson Graham + Associates, a fire protection engineering and code consultancy firm. He is also technical director of AEGIS, a fire door and barrier management and inspection agency. Mr. Biller holds registration as a professional fire protection engineer in multiple states including Virginia, Georgia, North Carolina and New York. Additionally, he is an NFPA-certified healthcare life safety specialist, healthcare facility manager (CLSS-HC) and a certified fire protection specialist (CFPS), and he holds the master code professional (MCP), certified building official (CBO), and certified fire official (CFO) certifications from ICC. Mr. Biller is a professional member of the American Society of Healthcare Engineers (ASHE), a professional member of the Society of Fire Protection Engineers (SFPE), and a member of the National Fire Protection Association (NFPA), currently serving on four technical committees. He is a 2014 graduate of the MSc. Fire Protection Engineering program at California Polytechnic State University and a 2007 undergraduate of the BSc., Engineering Technology program at Old Dominion University.

Here’s what past attendees had to say about the program and presenter Justin Biller:

“Justin gave a great presentation.” — *Commercial Builder*

“Very good, knowledgeable presenter.” — *Architect*

“Seminar was very good.” — *Building Inspector*

Seminar Information

Greensboro-High Point Marriott Airport
One Marriott Drive
Greensboro, NC 27409
(336) 852-6450

Registration
8:00 - 8:30 am
Morning Session
8:30 - 11:45 am
Lunch (on your own)
11:45 am - 12:45 pm
Afternoon Session
12:45 - 4:30 pm

Tuition

\$289 for individual registration
\$269 for three or more registrations.

Included with your registration: Complimentary continental breakfast and printed seminar manual. Registrations does not including copies of the codes themselves.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW contact hours to architects in most states, including North Carolina. HalfMoon Education is an approved continuing education provider for engineers in North Carolina.

This seminar is approved by the American Institute of Architects for 6.5 LU|HSW (Sponsor No. J885). Courses approved by the AIA qualify for North Carolina architects. Only full attendance can be reported to the AIA/CES. Visit www.halfmoonseminars.org for complete AIA information under this course listing.

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

The International Code Council has approved this event for .65 CEUs in the specialty area of Fire.

This seminar offers a non-credit continuing education opportunity to contractors. It has not been approved by any state contractor licensing entity.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Additional Learning

Webinar Series

Structural Design and Ethics

- **Structural Design: Ethical Issues**
Thurs., August 15, 2019, 11:00 AM - 12:00 PM CDT
- **Structural Design: Gravity Forces**
Thurs., August 15, 2019, 12:30 - 2:30 PM CDT
- **Structural Design: Lateral Forces**
Fri., August 16, 2019, 11:00 AM - 12:30 PM CDT
- **Structural Design: Wind, Seismic and Connections**
Fri., August 16, 2019, 1:00 - 2:30 PM CDT

Technical Writing

- **Planning Documents**
Wed., August 14, 2019, 11:00 AM - 1:00 PM CDT
- **Writing Documents**
Wednesday, August 14, 2019, 1:30 - 3:30 PM CDT
- **Revising and Editing Documents**
Thurs., August 15, 2019, 11:00 AM - 1:00 PM CDT
- **Technical Writing Best Practices**
Thurs., August 15, 2019, 1:30 - 3:30 PM CDT

Introduction to Hydro Energy Logic Modeling Software (HELP-FL)

- **Introduction to Hydro Energy Logic Program Modeling Software (HELP-FL), Part I**
Tues., August 20, 2019, 11:00 AM - 2:00 PM CDT
- **Introduction to Hydro Energy Logic Program Modeling Software (HELP-FL), Part II**
Wed., August 21, 2019, 11:00 AM - 2:30 PM CDT

Small Wind Energy Systems

- **Small Wind Energy System Components**
Thurs., August 22, 2019, 11:00 AM - 1:00 PM CDT
- **Small Wind Energy Siting and Sizing**
Fri., August 23, 2019, 11:00 AM - 1:00 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
Audio recordings of this seminar are available for purchase starting at \$269. 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.

Registration

Complying with Fire and Building Codes

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	Code:
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	
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.	

Tuition

- () **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.
- () **I am not attending.** Please send me the self-study package:
- ☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.
 - ☐ CD/Manual Package for **\$289.00**.
- (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: Mastercard, Visa, American Express, or Discover

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____