Learning Objectives

You’ll be able to:

Learn about fire protection codes and life safety design in Virginia

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.

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

Fire Protection Features and Equipment
- Walls, signage
- Fire detection, alarm and communication systems
- Sprinkler systems

Occupancy Exercises
- Case studies:
  - New construction
  - Changing occupancy of existing buildings

Applicable codes
- International Fire Code
- National Fire Protection Association (NFPA) codes
- Virginia 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

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Faculty

Justin Biller, P.E., MCP, CFPS, CSS-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 policy.

Mr. Biller is owner and principal fire protection engineer of Emerson Graham + Associates, a fire protection engineering and code consulting firm. He is also technical director of AEIGIS, 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 (CSS-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.

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Webinar Series

Special Inspections
• Introduction to Chapter 17: Special Inspections Wed., Feb. 13, 2019, 11:00 AM - 1:30 PM CST
• Soils and Foundations Wed., Feb. 13, 2019, 1:00 - 2:30 PM CST
• Reinforced Concrete and Structural Steel Thurs., Feb. 14, 2019, 11:00 AM - 1:30 PM CST
• ACT Ceiling Grid, Epoxy Anchors, and Fire Penetrations Thurs., Feb. 14, 2019, 1:00 - 2:30 PM CST

Foundations in Cold Regions
• Introduction to Cold Regions Foundations Thurs., Feb. 21, 2019, 11:00 AM - 1:30 PM CST
• Shallow Foundation Design in Cold Regions Thurs., Feb. 21, 2019, 1:00 - 2:30 PM CST
• Deep Foundation Design in Cold Regions Fri., Feb. 22, 2019, 11:00 AM - 1:30 PM CST
• Foundation Construction in Cold Regions Fri., Feb. 22, 2019, 1:00 - 2:00 PM CST

Soil Mechanics and Retaining Wall Design
• Soil Investigation and Classification Wed., Feb. 27, 2019, 11:00 AM - 1:30 PM CST
• Retaining Walls: What They Do and How They Do It Wed., Feb. 27, 2019, 1:30 - 2:30 PM CST
• Geotechnics and Retaining Walls Thurs., Feb. 28, 2019, 11:00 AM - 1:30 PM CST
• Retaining Wall Failures and Fixes/Site Layout and Prevention Thurs., Feb. 28, 2019, 1:30 - 4:00 PM CST

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

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Complying with Fire and Building Codes Roanoke, VA - Friday, March 29, 2019

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