



2023 Miami Educational Seminar

April 4-6, 2023

**Miami-Dade Fire Rescue Training Facility
9300 NW 41st Street
Doral, FL 33178**

SEMINAR PROGRAM



2023 Miami Educational Seminar

Schedule of Classes

As of 02/08/2023 (subject to change)



Tuesday, April 4th, 2023

8:00 AM – 12:00 PM – BDA Code, Survey, Inspections (What, Why, How) – Tom Warfield Honeywell
Classroom: 1-003 RN: 17720 Class: 126336

8:00 AM – 12:00 PM – Factors Impacting NFPA 101 Means of Egress Provisions – Milosh Puchovsky – Worcester Polytechnic
Classroom: 2-002 RN: 18132 Class: 126337

8:00 AM – 12:00 PM – Inspectors Deploying to Disasters, What you Should Know and What to Expect – Tommy Demopoulos, Jon Pasqualone - FFMIA
Classroom: 2-001 **VIRTUAL COMBO** RN: 18305 Class: 126345

12:00 PM – 1:00 PM – Lunch on own

1:00 PM – 3:00 PM – Hazardous Materials Storage Challenges – Chris Unangst – Jensen Hughes
Classroom: 1-003 RN: 18116 Class: 126338

3:00 PM – 5:00 PM – Mobile Food Vendor Operator and Employee Propane Safety – Cark Weeks – Propane Training Association
Classroom: 1-003 RN: 16767 Class: **applied for extension**

1:00 PM – 3:00 PM – NFPA 13R and the Building Code – Peter Schwab – Wayne Automatic Fire Sprinklers
Classroom: 2-002 RN: 18119 Class: 126339

3:00 PM – 5:00 PM – Standpipes Low Rise to High Rise – Peter Schwab – Wayne Automatic Fire Sprinklers
Classroom: 2-002 RN: 18120 Class: 126340

1:00 PM – 3:00 PM – Decoded: Swinging Fire Door Assemblies - Brian Mead – Door Hardware Institute
Classroom: 2-001 **VIRTUAL COMBO** RN: 18197 Class: 126853

3:00 PM – 4:00 PM – Smoke Containment Strategies for Elevator Hoistways and Lobbies – Candace Kitchen – Total Door Systems
Classroom: 2-001 **VIRTUAL COMBO** RN: 18450 Class: 126849

4:00 PM – 5:00 PM – Integrated Fire and Smoke Door Systems: Specifying Your Own Safety Net (elevators) – Candace Kitchen – Total Door Systems
Classroom: 2-001 **VIRTUAL COMBO** RN: 18449 Class: 126852

Wednesday April 5th, 2023 (Continued)

3:00 PM – 5:00 PM – Fire Protection Systems Reporting – George Mantis - Brycer
Classroom: 2-002 RN: 18196 Class: 126356

3:00 PM – 5:00 PM – FFPC and Determining Occupant Load – Karl Thompson - FFMIA
Classroom: 1-003 RN: 17232 Class: 126357

4:00 PM – 5:00 PM – Fire Inspector Photography – Photos with a Smart Device – Rhonda Scholting – West Metro Fire, Colorado
Classroom: 2-001 **VIRTUAL COMBO** RN: 18453 Class: 126846



Thursday April 6th, 2023

8:00 AM – 12:00 PM – Rapid Access Challenges, Trends and New Technologies – Wendy Fecteau - KNOX
Classroom: 2-001 **VIRTUAL COMBO** RN: 17283 Class: 126358

8:00 AM – 12:00 PM – Firestop International Contractors Association – Firestop Academy part 1 – Bill McHugh

NOTE: This session will be in multiple parts, students can take all or some, CEUs will be given based on sessions attended. The full academy consists of all AM and PM Sessions.

8:00 AM – 9:00 AM - Why are we here? Introductions & Fire-Resistance Fire Code Requirements – Existing Buildings – Bill McHugh, Firestop Contractors International Association

Classroom: 2-002 RN: 18483 Class: 126836

9:00 AM – 10:00 AM - What gets built right, gets maintained right. Barriers – Rich Walke

Classroom: 2-002 RN: 18487 Class: 126837

10:00 AM – 11:00 PM - Fire Dampers – Alex Talwar, Greenheck

Classroom: 2-002 RN: 18480 Class: 126843

11:00 AM – 12:00 PM - Gypsum Panels – Kyle Flondor, USGypsum

Classroom: 2-002 RN: 18486 Class: 126839

8:00 AM – 10:00 AM – Plan Review Concepts for ERCES – Chris Creamer - UL
Classroom: 1-003 RN: 18413 Class: 126359

10:00 AM – 11:00 AM – Past, Current and Future of the Alarm Transmission Ecosystem - Richard Roberts - Honeywell

Classroom: 1-003 RN: 18452 Class: 126875

11:00 AM – 12:00 PM – Summary of Key Changes to the 2022 Edition of NFPA 1225, Standard for Emergency Services Communications, - Richard Roberts - Honeywell

Classroom: 1-003 RN: 18451 Class: 126847

12:00 PM – 1:00 PM – Lunch on own

Thursday April 6th, 2023 (Continued)



1:00 PM – 3:00 PM – UL Resources for Fire Professionals – Kelly Nicoello – UL solutions

Classroom: 2-001 **VIRTUAL COMBO** RN: 18178 Class: 126360

1:00 PM – 3:00 PM – Marijuana Production and Extraction Program - Hazards and Applicable Codes – Robby Dawson - NFPA

Classroom: 1-003 RN: 17614 Class: 126361

1:00 PM – 5:00 PM – Firestop International Contractors Association – Firestop Academy part 2

NOTE: This session will be in multiple parts, students can take all or some, CEUs will be given based on sessions attended. The full academy consists of all AM and PM Sessions.

1:00 PM – 2:00 PM - Fire Rated Doors and NFPA 80, etc. – Laura Frye Weaver

Classroom: 2-002 RN: 18481 Class: 126840

2:00 PM – 3:30 PM – Firestopping – Bill McHugh, FCIA

Classroom: 2-002 RN: 18485 Class: 126841

3:30 PM – 4:00 PM - Fire Rated Glazing – Rich Walke, Creative Technology Inc.

Classroom: 2-002 RN: 18482 Class: 126842

4:00 PM – 5:00 PM - Fire Resistance Test Standards – Rich Walke, Creative Technology Inc.

Classroom: 2-002 RN: 18484 Class: 126838

5:00 PM – 5:15 PM – Wrap up and Tips - Bill McHugh & Team

Classroom: 2-002

3:00 PM – 5:00 PM – Emerging Electrical Technologies - Risks and Codes – Robby Dawson - NFPA

Classroom: 1-003 RN: 18501 Class: 3/4/23

3:00 PM – 4:00 PM Special Locking Arrangements – Jennifer Pierce – FFMIA 1st Vice President

Classroom: 2-001 **VIRTUAL COMBO** RN: 17745 Class: 126362

4:00 PM – 5:00 PM Change of Use and Occupancy - Jennifer Pierce – FFMIA 1st Vice President

Classroom: 2-001 **VIRTUAL COMBO** RN: 17743 Class: 126363

Select Course Descriptions:



BDA Code, Survey, Inspections (What, Why, How): This presentation is intended to educate multiple disciplines including AHJs, Engineers, End users about the code driven requirement for BDA including, What is needed, Why it is needed, Understand the codes driving the requirement, Next steps and timing.

Change of Use & Occupancy: Explore the challenges of changes in building use and occupancy requirements. Buildings and the way we use them are not always easily classified into a single occupancy. Fire Code Officials, Plans Examiners and Fire Inspectors must be able to identify single uses, mixed use, incidental use and those special situations that arise. Join an interactive discussion of common and not so common challenges facing our industry.

DAS system Inspections: This class will be going in depth into what it takes to do an effective inspection and what to look for as well as what to be on the lookout for. The class objective is to provide a solid base of knowledge for non-industry professionals so that they will be more effective in understanding the technology involved, what to look for in design and operation and the safety benefits derived from these systems when they are completed.

Decoded – Swinging Fire Door Assemblies: The Decoded series covers the requirements of the codes and standards that apply to fire door assemblies, including NFPA80 – Standard for Fire Doors and Other Opening Protectives.

Emerging Electrical Technologies Codes and Standards Perspective: Smart homes, smart cars, and smart neighborhoods pose a new and unique challenge to fire safety professionals from the code enforcer to the responder. This session will provide attendees with an overview of the new technologies used in fixed facilities and transportation as well as the codes involved, risks associated, and response concerns.

Factors Impacting NFPA 101 Means of Egress Provisions: NFPA 101 was originally titled the Building Exits Code, and many of the code's provisions address means of egress for various occupancies largely through chapter 7. However, numerous other provisions throughout the document impact how buildings should be designed, constructed, and maintained to assure occupants can safely egress when needed. This program reviews the basic egress concepts of NFPA 101 and expands on other factors that influence how means of egress can be arranged. The effect of occupant notification, door locking, life safety evaluations, integrated testing and other life safety features are presented.

Fire Alarm Myths, Misunderstandings, & Missed Opportunities: In this course we will discuss Fire Alarm Rules and States as well as the Florida Building Code, NFPA 70 and NFPA 72. Specific topics to be covered include Fire Alarm Panel tags, UL requirements, who doesn't need a FASA card, initiating device compatibility, Booster panel connection, Dedicated Function System, Do Manufacturers Published Instructions equal code, and Backflow monitoring.

Fire Alarm Plan Review Basics: This class will cover the basics of plan reviewing a fire alarm system to include. System Requirements, Requirements for Drawings, Battery Calculations, Circuit Calculations, Initiating Devices, Notification Devices, Special Devices, Disconnect Switch, Special Requirements, and monitoring

Fire Inspector Photography Better Photos with a Smart Device: Even if you only have a smartphone, you can create great pictures and videos for your reporting. Ronda Scholting, PIO for West Metro Fire Rescue (Colorado) has some tips on the tools and techniques to help you. Scholting will discuss filming equipment including phones verse video cameras and go pros, microphones, tripods, and cold shoes. She will also educate attendees on editing options, shooting tips, and various apps that are available.

FFPC Calculating Water Flow Demand: At the end of this session the student will be able to, determine the needed fireground water demand requirements, explain the parameters of the classification system as used in the Fire Code® for determining fire flow requirements, and describe alternative water flow resources. Consideration is given a review of chapter 18 of the Fire Code®, sections of the Fire Protection Handbook and NFPA 1124 Water Supplies for Suburban and Rural Fire Fighting.

FFPC and Determining Occupant Load: At the end of this session the student will be able to, determine the occupancy classification of a building, explain the parameters of the classification system as used in the Life Safety Code®, and will understand the differences and similarities of the Life Safety Code and the International (Florida) Building Code. This is done by a review of Chapter 6 of the Life Safety Code®, Section 2o of the Fire Protection Handbook, and a review of Chapter 3 of the International (Florida) Building Code.

Fire Dampers: Another opening in the fire-resistance-rated wall is the duct and air transfer openings. Left untreated, ductwork can bring fire and smoke to non-fire areas quickly. Fire, fire/smoke, or smoke dampers help contain fire and smoke spread providing safety to building occupants.

Fire Protection Systems Reporting: This class covers the requirements for the reporting of information to the local AHJ pertaining to many different systems. These systems will include fire alarms, fire sprinklers, kitchen suppression, fire pumps, BDA, and many more.

Fire Rated Glazing: This new technology has provided fire-protection ratings and fire-resistance-ratings, both very different for separate purposes. Fire-resistance-rated glazing tested in accordance with ASTM E119 or UL 263 can provide fire-resistance-rated walls made from glass. How to identify these in the field once built is critical to fire and life safety in buildings. If the wrong assembly is installed, egress systems can be compromised.

Firestopping: Proper Design, Installation, Inspection and Maintaining Protection fire-resistance-rated assemblies, and firestopping requires clear building code requirements, specifier understanding and communication to the field, a firestop contractor that has quantified qualifications, independent inspection (ASTM E2174 & ASTM E2393 Firestop Inspection), and following fire-code requirements to maintain fire-resistance protection. This program provides a full view of firestopping, and what to look for when performing AHJ inspections, or debating with another professional about the industry.

Fire Rated Doors – NFPA 80, etc: Swinging fire-rated door assemblies protect one of the biggest openings in a fire-resistance-rated wall assembly. Fire-testing of these doors will have been covered. In this presentation, we'll cover inspection and ongoing maintenance of fire-rated doors as required by NFPA 80, Standard for Fire Doors and other Opening Protectives.

Fire Resistance Test Standards: The Building Codes require proof that a fire-resistance-rated wall or floor is fire-resistance-rated. That proof is fire-testing in accordance with the code referenced fire test standards for the assembly and the features that protect breaches in the assembly. Features include firestopping, fire dampers, fire doors (rolling and swinging), fire rated glazing.

Gypsum Panels: One type of fire-resistance-rated wall assembly is made from gypsum panels and studs, fasteners, more. This program covers fire-resistance-rated wall construction, gypsum mineral properties, and how a majority of walls used in hospitals are constructed.

Hazardous Materials Storage Challenges: Hazardous Materials Storage Challenges-Discussion will include the code and performance challenges with storage of hazardous materials in different occupancies. Discussion will relate to Maximum Allowable Quantities, construction type and other associated fire safety features. Methods to address potential hazards (e.g., control hazardous materials or allow additional quantities) and challenges associated with fire protection design will also be discussed.

Inspectors Deploying to Disasters, what you Should Know and What to Expect: This course is designed to prepare inspectors for a post disaster deployment to an affected area. The course is designed to prepare inspectors for what they will encounter and how to do their job on these deployments.

Integrated Fire and Smoke Door Systems: Specifying Your Own Safety Net: This class covers code for elevator shafts, elevator lobbies, cross corridor, and stairwells. We go through certifications and sustainability documents and what it means to be a true integrated door system versus your conventional door and hard. Specifically focusing on smoke.

Marijuana Production and Extraction Program - Hazards and Applicable Codes: This course will discuss challenges and risks associated with cannabis growing, cultivation, and extraction processes used in the legal commercial production of CBD and THC. The course will discuss currently applicable codes and standards as well as those standards currently under development and pathways to code compliance within the existing codes.

Mobile Cooking Operations – A Roundtable Discussion: This lecture/discussion will include the following: the increased popularity to mobile food trucks and the potential hazards associated with these portable catering operations, it will review several recent fire/explosions involving these trucks, some with fatalities/injuries, it will cover in detail the codes associated with these operations that are found in NFPA 1 chapter 50.1.7, it will discuss requirements found in 2021 HB 1193 and how that effects the fire service, and it will outline how AHJ's can treat inspecting and permitting the food trucks operating in their community.

Mobile Food Vendor "Operator & Employee" Propane Safety: This class will discuss the following subjects: Temporary food vendors, food trucks, and non-vehicle vendors along with the variety of installations an inspector may see, Propane cylinders, tanks, piping, appliances, codes and connections an inspector may see in the field, DOT transportation rules and regulations, FFMI Inspection rules and regulations and various fire codes for kitchen fire suppression and venting systems, Propane leak detection and mitigation. The class will explore the applicable aspects of NFPA 54 and NFPA 58 codes which cover the transportation and use of propane.

NFPA 13R and the Building Code: This class will focus on the relationship between NFPA 13R and the Florida Building code as it pertains to protecting corridors (breezeways), podium style buildings and attic protection, and how to utilize NFPA 13 and NFPA 13R in the same building.

Past, Current and Future of the Alarm Transmission Ecosystem: An informative presentation that provides an overview of the Alarm Transmission Ecosystem as well as providing information as to why changes are being made that will enhance public life safety. This discussion is important because the technologies for transmitting alarm, trouble, and supervisory signals from the protected premises to the fire department is changing rapidly. Several of the legacy technologies are becoming or are obsolete.

Plan Review Concepts for ERCES: This is an Introductory overview of ERCES from a plans examiner's view point. This is for the Students and attendees to familiarize themselves with concepts of what a proper set of drawings should look like, to a plans examiner for ERCES.

Rapid Access Challenges, Trends and New Technologies: This course will cover, how Rapid Access plays a role with new industry challenges, an update on existing products, a look at new products coming soon. It will also provide knowledge of what should the fire industry keep an eye on and provide knowledge of the impact of EV charging station growth in Florida

Smoke Containment Strategies for Elevator Hoistways and Lobbies: This course covers extensively elevator shaft and lobby openings. Code surrounding those openings and stipulations to solutions surrounding those openings. This will cover for high rise buildings as well as buildings with only a couple stories that have rated corridors.

Special Locking Arrangements- "Locked In, Locked Out or Locked Up": A dynamic introduction to different door types, special locking arrangements and the relationship with your community partners.

Standpipes low Rise to High Rise: At the end of this course, learners will be able to: Grasp the difference between automatic and manual standpipe system requirements, discuss horizontal exits and where standpipes are required, comprehend recent changes for the next edition of NFPA 14, Understand Fire Department Connection requirements as they pertain to standpipe systems, Recognize the various acceptance testing requirements for standpipe systems.

Summary of Key Changes to the 2022 Edition of NFPA 1225: An informative presentation relating to the new requirements for public safety communications inside buildings. The presentation will summarize the key changes to the 2022 edition of the NFPA 1225, Standard for Emergency Services Communications, for in-building emergency responder communications enhancement systems (ERCES) as well as providing the reasons for the changes and how they will improve the performance and reduce the total installation costs of ERCES.

UL Resources for Fire Professionals: It's important for Fire Professionals to know how they can find out more information about Listed and Labeled requirements described throughout the codes, therefore we'll spend time understanding UL resources available to them regarding UL Test Standards, Product IQ, Manufacturer Instructions and Engineering Judgements. We'll discuss the importance of understanding Approvals and the difference of Approval vs Listings as designated in the codes. This is a shortened version of a previously approved course.

What gets built right, gets maintained right. Barriers Defined In this session learn about the code defined terms that make fire-resistance-rated wall and horizontal assemblies, the characteristics that provide fire and smoke protection in buildings. Fire Walls, Fire Barriers, Fire Partitions, Smoke Barriers, Smoke Partitions, Exterior Walls and more are covered.

To become a member of FFMIA or for more information on these events go to www.ffmia.org



SAVE THE DATE

2023 Joint FAFLSE and FFEIA Conference

June 6-9, 2023

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