



2019 Miami Educational Seminar

**April 2-4, 2019
Miami Dade Fire Training Facility
9300 NW 41st St.
Doral, FL 33178**

SEMINAR PROGRAM



Tuesday April 2nd, 2019

- 8:00 am – 10:00 am Arc Flash Safety Training for Fire Inspectors and Code Officials
Marty Perone – Carpenter Electric, Inc. - Room 2-002
- 8:00 am – 10:00 am Photo Luminescent Egress Pathway Lighting, NFPA and ICC Requirements
Zach Green – Lum Aware – Room 2-001
- 8:00 am – Noon The Team Approach to Fire Prevention
Captain Doug Keller – Miami Dade FD – Room 1-003
- 10:00 am – noon Construction Site Fire Safety for the Fire Inspector
National Association of State Fire Marshals – Room 2-001
- 10:00 am – Noon Florida Alternative Power Source Mandate for Assisted Living Facilities
Marty Perone – Carpenter Electric, Inc. - Room 2-002
- Noon – 1:00 pm Lunch on your own
- 1:00 pm – 3:00 pm Photo Luminescent Egress Pathway Lighting, NFPA and ICC Requirements
Zach Green – Lum Aware – Room 2-001
- 1:00 pm – 5:00 pm Emergency Responder Radio Communication Enhancement Systems
David Thompson – Honeywell – Room 2-002
- 1:00 pm – 5:00 pm Propane Emergencies: Facility Fires and Inspections
Carl Weeks – Propane Training Services – Room 1-003
- 3:00 pm – 5:00 pm Construction Site Fire Safety for the Fire Inspector
National Association of State Fire Marshals – Room 2-001



Wednesday April 3rd, 2019

- 8:00 am – Noon Investigation of Marine Fires
Captain Doug Keller – Miami Dade FD – Room 1-003
- 8:00 am – 5:00 pm Understanding, Applying and Enforcing NFPA 25 “Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection”
Florida Fire Sprinkler Association - Room: 2-001
- 8:00 am – Noon The Fire and Smoke Door Inspection Process w/NFPA 80 and 105
Steve Bolin, Travis Worthington – DH Pace Room: 2-002

- Noon – 1:00 pm Lunch on your own
- 1:00 pm – 5:00 pm **Ignition Sequence Testing**
Captain Doug Keller and Mike Adams – Miami Dade FD – Room 1-003
- 1:00 pm – 3:00 pm **Construction Site Fire Safety for the Fire Inspector**
National Association of State Fire Marshals – Room 2-002
- 3:00 pm – 5:00 pm **DAS 101**
Lenn Marella – Two Way Technology Group – Room 2-002



Thursday April 4th, 2019

- 8:00 am – Noon **School Safety and Security**
Karl Morgan – State of Florida Fire Marshals Office – Room 1-003
- 8:00 am – 10:00 am **DAS 101**
Lenn Marella – Two Way Technology Group – Room 2-002
- 10:00 am – Noon **Legislation 101 and the Fire Inspector**
Jon Pasqualone – FFMIA – Room 2-002
- 8:00 am – Noon **Understanding Industrial Fire Pumps**
David Kerr, Wendy Fecteau - KNOX
Room: 2-001
- Noon – 1:00 pm Lunch on own
- 1:00 pm – 5:00 pm **Performance Base Codes**
David Kerr, Wendy Fecteau – KNOX
Room: 2-001
- 1:00 pm – 3:00 pm **Pressure Regulating Devices**
Edison Lino – Victaulic – Room 1-003
- 1:00 pm – 5:00 pm **Principles of Inspection of Lightning Protection systems and Lightning Protection in the Florida Building Code**
Mitchell Guthrie – Lightning Protection Institute Room – 2-002
- 3:00 pm – 5:00 pm **Pre-Action Valves (Hands on Session)**
Edison Lino – Victaulic – Room 1-003 and parking lot

Select Course Descriptions:

Arc Flash Safety for Fire Inspectors. The NFPA 70E contains six specific safety measures as required by OSHA to be accomplished within a reasonable period of time before a business/building owner can become Arc Flash Compliant. The new final ruling of OSHA 29 CFR 1910.269 was finalized on April 14, 2014 and became law on July 10, 2014. This informative four (4) hour program demonstrates why OSHA considers ARC FLASH such a huge priority and provides everything Fire Marshals, Inspectors and Rescue Personnel need to know. Learn National Government Safety Regulations that were designed to help you protect your buildings, employees, vendors and clients from a Deadly Arc Flash Explosion. Learn specific Life-Safety practices, and procedures Host Employers, Contract Employers, FFMIA members must follow and document in order to Limit Their Financial Liability.

Construction Site Fire Safety for the Fire Inspector: This program is intended to provide the information (knowledge) to make informed decisions relating to potential solutions to reduce the risk of fire in buildings under construction. This will a comprehensive look at the problem, including a review of representative major fires across the U.S.; a gap analysis of existing systems that are intended to provide for fire safety; and a host of methods to fill the identified gaps. Those methods will be explored individually and in concert to identify synergies that can be achieved by layering the different options to gain more results for the money spent.

DAS 101. This course provides a basic understanding of DAS or Public Safety Two Way Radio Enhancement Systems. The training will provide information at a practical level that will aid inspectors and Fire Marshals in the their ability to understand the operation of these systems, recognize their components, decide on appropriate rules for their municipality, and inspect them more effectively.

The Fire and Smoke Door Inspection Process. Upon successful completion of this program participants should understand the: 1. Basics of fire. 2. Relationship between building codes and standards. 3. Basics of fire rated door assemblies 4. Requirements for fire rated door inspections 5. Needed documentation for door inspections 6. New egress door inspection requirements and what occupancy types it affects This course is primarily applicable to Annual Rated Swinging Fire and Smoke Door Inspections. It is based on the NFPA 80 and NFPA 105 Standards and areas where the Commissioning/Acceptance Test/Inspection is Identical to the Annual/Service Inspection. The course is applicable to both new construction and existing, but predominately existing.

Marine Fire Investigation. This class will cover numerous marine related fire cause and origin investigations. This will include vessels, marinas, and other related marine equipment.

Performance Based Codes – This course will cover the importance of understanding the application of performance-based codes with prescriptive codes. NFPA and other code making bodies recognize the science and engineering behind this concept. We will explore now only when this particular code option may be applied but how the process can be implemented. This concept is now widely recognized around the world. There some pitfalls that will be address as caution must be used when applying this code type.

Photo luminescent Egress Pathway and Signage Code Changes and NFPA 101. Bringing Safety to Light is the goal of this program. After attending this program the student will be able to understand why changes have been made to the Life Safety Code that pertain to luminous egress pathways, understand benefits of photoluminescence markings in high rise stairwells, understand how photo luminescent EXIT signs conserve energy and reduce waste, understand specific sections of the NFPA and IFC codes which require photoluminescence in stairwells.

Pre-Action Valves. At the end of this course, learners will be able to discuss the history of pre-action valves, successfully identify all valve components, discuss the benefits, functions, and versatility of various pre-action valves, and know where to locate valve related literature and troubleshooting resources for pre-action valves.

Pressure Regulating Devices. At the end of this course learners will be able to, define the various sources of pressure, identify the types of pressure regulating devices used in commercial fire protection, explain the principles of operation and performance differences between different valves, discuss the benefits and limitations of pressure regulating devices, explain the function of anti-cavitation devices, and know about advancements being made in pressure regulating devices.

Principles of Inspection of Lightning Protection systems and Lightning Protection in the Florida Building Code. In order to focus on the principles of lightning protection inspections it will be necessary to begin by introducing the principles of lightning protection and explaining the sources and types of damage. Discussions of lightning protection in the FL Building Code will be a part of these discussions. This course will discuss specifically what is required and why. It will also go into details with each application (schools, hospitals, assisted living, etc.) to explain the specific threats to these facilities. We will also introduce the concepts of risk assessment, so students will have what they need to understand the process.

School Safety and Security: The goal of this program is to enhance responder's ability to prevent and effectively respond to imminent threat events such as active shooters and other deadly threats. This is done through the lens of the Safety and Security Evaluations program followed by scenario-based training and an educational workshop. This course is designed for everyday people. This four-hour workshop ends with each student taking a written exam and being certified in the GSI curriculum.

Understanding Industrial Fire Pumps: This course will cover NFPA 20 and 24 as it relates to industrial fire pumps. Industrial fire pumps have been around since the 1880's. Understanding when to require them is just the start. We will also consider water supplies, testing and maintenance. We will also discuss how industrial pumps and municipal pumps can work together or against each other.