



## Telgian at Fire Safety Campus Conference Schedule

All classes take place in Union Room B

### **Monday February 26, 2018**

#### **1:00pm - 2:00pm**

##### **Overview of Fire Alarms**

**Description:** Fire alarm systems has several devices working together to detect and warn people through visual and audio appliances when smoke, fire, carbon monoxide or other emergencies are present. These alarms may be activated automatically from smoke detectors, and heat detectors or may also be activated via manual fire alarm activation devices such as manual call points or pull stations.

Fire alarm systems are essential for the adequate detection and warning of a fire situation within commercial and residential premises. The detection, visual and audible requirements of a fire alarm system are dependent on the layout and use of the building. It is due to the diversity of these applications that fire alarm panels and related accessories have been developed to meet these varying needs.

#### **2:15pm - 3:15pm**

##### **International Fire Code (IFC) Chapter 9 - Significant changes to the fire alarm section**

**Description:** Changes in the International Fire Code (IFC) drive the requirements for when (and where) fire alarm systems are required to be installed in occupancies governed by the code. The International Code Council (ICC) revises the code set every three (3) years, providing and update to the requirements based on continuing experience and updates to industry best practices.

#### **3:45pm - 4:45pm**

##### **In-Building Radio Systems**

**Description:** Have you ever walked into a building and noticed you have "no bars" on your cell phone? Radio frequency (both radio and cellular) signals are greatly reduced when passed through dense building materials such as concrete and metal. This problem was evident during 9/11, when first responders were not able to effectively communicate inside the World Trade Center towers. Since 2009, the International Code Council and the National Fire Protection

Association have added first responder radio coverage requirements to their book of fire codes. Many states and municipalities have begun enforcing these codes. Based upon Model Fire and Building Codes: all new and some existing buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. The intent of this guideline is to provide the occupants of the minimum standards necessary to meet the requirements for emergency responder radio coverage in accordance with the state code.

**Tuesday February 27, 2018**

**8:00am – 9:00am**

### **NFPA 25 Misunderstood, Misinterpreted, and Misapplied**

**Description:** NFPA 25 *Standard for the Inspection, Testing, and Maintenance of Water-based Fire Protection Systems* is referenced by all water-based system installation standards (Including the Ohio Fire Code and the IFC) and is widely adopted throughout the United States. However, the scope and purpose of the standard are widely misunderstood and its application widely misapplied. NFPA 25 is intended to eliminate system failures that are the result of lack of maintenance. Therefore the focus of the inspections and tests required by the standard do not address the design status of the system or compliance to installation standards. Attendees of this session will learn the reasons behind this limited scope and how the inspections and tests are geared to meet these limits. In addition, the roles of the AHJ, the property owner, and the service provider will be reviewed to examine how the stakeholders are intended to work together to meet the purpose of NFPA 25.

**9:30am - 10:30am**

### **Applying the 3 E's to Exiting**

**Description:** Often fire and life safety professionals refer to “The Three E’s” – Engineering, Enforcement and Education – in providing fire and life safety in an occupancy. Exiting is a perfect example of how the three E’s work together to provide occupant safety.

- Engineering – Building codes describe the number, width and arrangements of exits. They also address corridors, signs, opening force, type of lock or latch... all aspect of the egress system. Knowing what is required is an essential first step in providing safe, adequate exiting.
- Enforcement – Are aisle and corridors kept clear? Do doors operate as designed? Is lighting adequate to escape during a power failure? Ensuring the maintenance of all elements of the egress system is critical in maintaining the engineered abilities.
- Education – Are occupants familiar with the building, or transient attendees? Are signs adequate? For living quarters, are exiting drills held on a regular basis?

Learning outcomes:

Participants will have been introduced to the following:

1. Methods for determining the adequacy of exiting
2. Strategies for maintaining the functionality of the egress system
3. The importance of exiting education, including regular drills

**10:45am – 11:45am**

### **NFPA 25 and 72: Compliance Need Not Break the Bank**

**Description:** The cost effective maintenance of fire and life safety systems is always a challenge but even more so in a down economy that is filled with corporative directives to lower costs. This seminar examines the published requirements for the inspection, testing, and maintenance for fire suppression and fire alarm systems along with strategies for complying with the requirements without busting the bank. The session reviews real world examples where property owners, authorities having jurisdiction, and service providers work together to manage the risk of fire loss while keeping the costs as low as possible.

**1:00pm – 2:00pm**

### **Stationary Fire Pumps 100- Installation and Maintenance Basics**

**Description:** Many buildings around the country including many college and university campuses their are water-based fire protection systems utilizing stationary fire pumps. The failure of a fire pump almost always results in the failure of the fire protection system it supplies. Where fire pumps are utilized with fire protection systems the proper installation and maintenance of this critical system component is essential for successful system operation. This seminar reviews the basic hydraulic principles associated with fire pumps and the general requirements for pump and driver selection, installation, and maintenance using the latest editions of NFPA 20 and NFPA 25. This session will benefit both the novice and experienced fire pump owners, installers, and maintainers.

**2:15pm – 3:15pm**

### **Using Fire Alarm Systems as Part of Your Arson Investigation**

**Description:** Learn how the fire alarm system can assist in a fire investigation and be able to describe basic system functions and how information may be retrieved from the Fire Alarm Control Panels.