



Fire Alarm Systems: Testing, Communications, Circuits & Pathways, Understanding Design & Placement

1.5 Hours 0.15 CEUs ICC Course #24920

The *Fire Alarm Systems: Communications, Circuits & Pathways, Understanding Design & Placement* virtual training course provides participants a deeper dive into communications, wiring, circuits, and the placement of devices with Fire Alarm Systems. This is segment 3 of a 3-part series.

Content includes educating participants with the following topics:

- Emergency Controls and Functionality
- Emergency Communication Systems
- Circuits and Pathways System Wiring
 - Types of Circuits
 - Conventional and Addressable Panel Wiring
- Understanding Design & Placement (Inputs)
 - Smoke Detector
 - Projected Beam
 - Duct Detector
 - RTS151KEY
 - Heat Detector
 - Manual Fire Alarm Box
- Understanding Design and Placement (Outputs)
 - Audible Requirements/Ambient Sound
 - Notification Appliance Placement
 - Directional Sounders
 - 520 Hz Sounders
 - Visual Notification Appliance Placement
- Circuits and Power
 - Open vs. Short Circuits
 - Battery Calculations
- Fire Alarm Communications
 - Communicating with a Central Station
 - Digital Communications
- Carbon Monoxide
 - The Impact of Carbon Monoxide
 - Measuring CO
 - CO Alarms vs. Detectors
 - CO Detector Placement

Learning Objectives:

- What the acronym ECS stands for.
- What new chapter NFPA 72 added for ECS in the 2010 Edition.
- Identify the 3 common classes of wiring used on a fire alarm system.
- The 2 different modes of operation for fire alarm monitoring.
- The impact to evacuation by using Directional Sounders.
- The maximum distance a Manual Pull Box can be mounted from an exit.
- The types of circuits and how they impact devices.
- The types of communication methods used to send signals to the Central Station.
- The impact the AHJ has to communication lines.
- What is required at the Central Station to receive signals.
- The Standard for the Installation of CO Detection and Warning Equipment.
- The National Code for a Carbon Monoxide alarm.

Support@FEDLearningCenter.com

