

Automatic Fire Alarm Association

Basic Fire Alarm Seminar 1-day Course Outline (7 hours)

Course Description

This basic fire alarm seminar is an application course beneficial for new installers, sales personnel, service technicians, plus building and fire inspectors involved in acceptance testing and/or plans review. This course is also useful as a refresher for anyone involved with fire alarms. This seminar reviews fire alarm system fundamentals; their components; and the proper methods used to satisfy the requirements of NFPA 72-2010, *National Fire Alarm and Signaling Code* and NFPA 70-2008, *National Electrical Code*.

7 Contact Hours Continuing Education - Participant must attend entire seminar to receive credit.

Course Materials

- Student workbook and handouts (provided)
- Calculator, pencils and note paper (Student to provide)

Course Outline

Chapter 1 – Fundamentals.

Control panels, power supplies, circuits, signals, initiating devices, notification appliances, fire safety control functions; addressable, analog, and multiplex systems; emergency voice/alarm communication systems, survivability, and two-way emergency communications systems; battery-set calculations and voltage-drop calculations.

Chapter 2 – Initiating Devices.

Review the proper application of manual fire alarm boxes, heat detectors, smoke detectors, flame detectors, waterflow switches, supervisory signal-initiating devices.

Chapter 3 – Notification Appliances.

Review the proper application of horns, bells, buzzers, chimes, speakers, strobes, and annunciators. Discuss sound transmission in the built environment.

Chapter 4 - Fire Safety Control Functions.

A review of control functions such as smoke door release, elevator recall, HVAC fan shutdown, smoke control/management systems, high-rise applications, and atriums. Discuss duct detector requirements and installation. Fire safety control function circuit supervision requirements.