



SCPPA Training Course

National Fire Alarm & Signaling Code (NFPA 72)

March 11 – 13, 2019

Course Overview:

This three-day program covers the key aspects of the design, installation, and basic maintenance of protective signaling systems. This training enables you to locate, interpret, and correctly apply the requirements found within NFPA 72®, National Fire Alarm and Signaling Code. This interactive program uses lecture and group activities to mirror the NFPA 72® code format and teaches you how the new code differs from the previous code editions. Upon completion, participants should be able to implement and interpret the codes and information outlined in each of the following modules.

Who should Attend?

Anyone whose job involves **designing, reviewing, evaluating** or **installing** fire alarm systems, including: designers, installers, electrical contractors, architects, auditors, and project managers.



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Module 1

The Basics

- State the purpose of NFPA 72 key characteristics of fire and how they can be used to initiate a fire alarm
- Identify key terms in NFPA 72
- Explain why fire safety is a system
- List the steps and stakeholders in the lifecycle of a fire alarm system

Module 2

Initiating Devices

- Identify the appropriate initiating device
- Design an appropriate fire detection system
- State the Smoke Detection and Heat Detection Characteristics
- Define and state the normal spacing rules for device placement
- List the various considerations for air sampling detection
- Recall and state the various common testing and inspection requirements
- Define the various sprinkler water flow alarms

Module 3

Notification Appliances

- Determine how loud a fire alarm has to be
- Where visual signaling is required, determine the size and location of strobe lights
- List the spaces where occupant notification is required
- Design a notification system



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Module 4

Control Units and Power Supplies

- List the options for secondary power supplies
- Plan the zoning and annunciation of an alarm system
- Perform a battery calculation
- List key requirements for primary power and the protection of primary power

Module 5

Circuits and Pathways

- Calculate loop resistance
- State the purpose of a voltage drop calculation
- Where visual signaling is required, determine the size and location of strobe lights for a given scenario
- List the spaces where occupant notification is required

Module 6

Emergency Control Functions Interfaces

- Plan emergency control functions

Module 7

Off-Premises Signaling

- Identify the different types of supervision station alarm systems and how they are commonly used
- List at least three reasons for off-premises signaling
- Identify the key requirements for properly connecting a digital alarm communicator transmitter
- Identify the key requirements for properly connecting an IP communicator



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Module 8

Planning, Documentation, Approval, and Acceptance

- Develop a record-keeping program in accordance with code requirements while on the job
- Locate forms and subforms in the Code

Module 9

Plan Review Activity

- Identify resources for further information about NFPA 72