



## NATIONAL FIRE ALARM AND SIGNALING CODE® (NFPA 72)

**DURATION: 3 DAYS – 24 HOURS**



**Onsite – In Class Training**  
**Single Class Capacity: 15**

This training will help workers to navigate the National Fire Alarm and Signaling Code® (NFPA 72) and introduce them to its many minor and major changes. Workers will then apply the requirements of the National Fire Alarm and Signaling Code® (NFPA 72) to insure a safe and functioning alarm system.

This training is important because the National Fire Alarm and Signaling Code® has had several changes including the requirements for CO detection and alarm. Workers are going to learn the new and modified requirements of the code. They may have become numb to the requirements so this will teach them all of the important requirements in the NFPA 72 code.

This training should be attended by engineers who design systems and workers who install, test and maintain systems. It is a group effort to get a proper system. Practical hands-on exercises in class emphasizes what has been instructed each day.

The workers will take these skills back to the workplace and insure they have properly functioning systems. With NTT's knowledgeable instructors, all questions about the NFPA 72 code will be reviewed, ensuring a safe and confident worker.

### WHAT THIS COURSE COVERS

- What codes are standard
- Where you should and should not use detectors
- Fundamentals of fire alarm systems
- Fire warning equipment for dwelling units
- Protected premises fire alarm systems
- Supervising station fire alarm systems
- Initiating devices
- Inspection, testing, and maintenance

### WHO SHOULD TAKE THIS?

- Fire Alarm Technicians
- Fire Alarm contractors
- Electricians
- Plant & facility maintenance technicians
- Building engineers
- Building managers & superintendents
- Plant & facility managers
- Stationary engineers
- Safety directors

### COURSE OUTCOMES

- Determine which codes are applicable to fire detection and alarm systems.
- Understand how building occupancy requirements affect your fire alarm system.
- Decide where you should and should not use detectors, and the installation requirements.
- Avoid the most common errors.



Every NTT course is eligible for CEUs (or Continuing Education Units) with your governing board approval or your states approval.



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### COURSE AGENDA

#### Fundamentals of Fire Alarm Systems

- Terminology and definitions
- Purpose of Alarm Systems
- Current applicable codes
- Fire Alarm Reliably
- Circuit designations and repetitive deficiencies
- IDC, and NAC circuit installation requirements and pitfalls
- Coordination with other related systems
- Available signal transmission methods
- Classification of protective signaling systems
- SLC circuit installation requirements

#### Power Supplies

- Speed and torque
- Types and sizing of hydraulic motors
- Hydraulic motors in circuits
- Hydrostatic transmission
- Applications of rotary actuators

#### Inspection, Testing and Maintenance;

##### Documentation

- Who is responsible for testing
- Required documentation and certification
- Proper testing techniques of initiating devices
- Required testing of notification appliances
- Testing of system wiring

#### System Design Principles

- Circuits and pathways
- Typical system designs

#### Initiating Devices

- Review of various types of detectors
- Principles of operation of the various automatic detectors
- Choosing the right detector for the right location
- Heat detector selection
- Environmental factors in smoke detection
- Smoke detection for air duct systems
- Detectors in high air movement areas
- Location requirements for components
- Location requirements for manual stations
- Location requirements for CO detectors

#### Notification Appliances

- NFPA and ADA requirements for notification appliances
- Notification appliance location with audible, visible and graphical requirements

#### HANDS ON LAB EXERCISES

- “As-built” point-to-point wiring schematics
- Device compatibility document
- Initiating device circuit
- Notification appliance circuit
- Signaling line circuit
- Smoke detector sensitivity test
- CO detector test
- Visual and functional tests
- Layout of a fire alarm system for an ambulatory care facility



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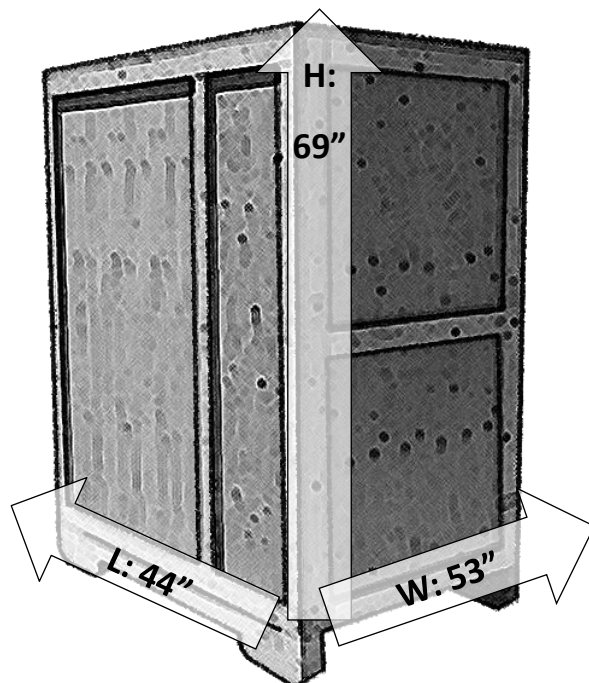
### EQUIPMENT & MATERIALS for Onsite

#### NTT TO PROVIDE

- 3-days (24 contact hours) of on-site instruction
- Textbooks: - NTT's "Practical Approach to the National Fire Alarm Code with NFPA 72 Extract"
- Optional Text: 2019 edition of "NFPA 72: National Fire Alarm & Signal Code®"
- Classroom consumables
- Completion certificates
- Shipping, instructor fees and travel expenses

#### SHIPPING

- 1 crates@ 53" x 44" x 69" (1,000 lbs.)



#### CLIENT TO PROVIDE

- Classroom, with easy access, of 750 square feet or greater.
- Projection screen, white board and/or flip chart(s).
- Power requirements are three (3) 110v, 15 amp circuits
- A dock facility or a forklift to unload the training equipment.
- A pallet jack to move the crates around after they have been unloaded may also be needed.
- The equipment should be placed in the training room for the NTT instructor to test and set up prior to the start of training.

