

2013 NATIONAL FIRE ALARM AND SIGNALING CODE® (NFPA 72) with NICET® I & II

CLASS FORMAT:

Lab + classroom

The participant is able to “learn-by-doing” in the course; this knowledge can be transferred to the workplace.

STANDARD SIZE CLASS:

We recommend a course size of 12 participants to obtain the best results.

NTT PROVIDES:

- 5-days (40 contact hours) of on-site instruction
- Participant textbooks and lab manuals
- Classroom consumables
- Completion certificates
- Shipping and instructor travel logistics

CLIENT PROVIDES

- Classroom, with easy access, of 750 square feet or greater
- Projection screen, white board and/or flip chart(s)

SHIPPING:

2 crates at 900 lbs each (49" x 35" x 76")

Being up-to-date with basics of the National Fire Alarm Code® (NFPA 72) will help improve your fire alarm and signaling system's reliability. Learn the fundamentals of fire alarm systems, fire alarm equipment for dwelling units, initiating devices, emergency communication systems (including mass notification) and more.

Become familiar with various terms, tools, and techniques in order to assure a safe, tested and reliable system.

This NICET course will help you prepare for the NICET Certification Exam. NICET Level I is for trainees and entry-level technicians who perform limited job tasks under frequent supervision. NICET Level II is for technicians who perform routine tasks under general daily supervision.

This course covers test-taking strategies and a review of other reference materials needed to maximize the participants' NICET test experience.

COURSE AGENDA

FUNDAMENTALS OF FIRE ALARM SYSTEMS

- Terminology and definitions
- Phases of a fire hazard
- Primary and secondary power supply requirements
- Proper sizes for batteries and battery chargers
- System operation and compatible components

PROTECTED PREMISES FIRE ALARM SYSTEMS

- Circuit designations and repetitive deficiencies
- IDC, SLC, and NAC circuit installation requirements and pitfalls
- Component location requirements
- Coordination with other related systems

SUPERVISING STATION FIRE ALARM SYSTEMS

- Available signal transmission methods
- Classification of protective signaling systems



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COURSE AGENDA, continued

INITIATING DEVICES

- Principles of operation of the various automatic detectors
- Choosing the right detector for the right location
- Installation points and repetitive deficiencies
- Proper spacing requirements
- Heat detection selection
- Environmental factors in smoke detection
- Smoke detection for air duct systems
- Detectors in high air movement areas

NOTIFICATION APPLIANCES FOR FIRE ALARM SYSTEMS

- NFPA and ADA requirements
- Notification appliance location requirements
- Determine proper wire sizes
- Repetitive deficiencies

INSPECTION, TESTING, & MAINTENANCE

- Who is responsible for testing
- Required documentation and certification (new code chapter)
- Proper testing techniques of initiating devices (combined testing tables)
- Required testing of notification appliances
- Testing of system wiring

THE RELEVANCY OF THE 2013 FIRE ALARM CODE® AND SIGNALING CODE

- Such as NFPA 13, NFPA 20, NFPA 70 and NFPA 101

HANDS-ON LAB EXERCISES

- "As-built" point-to-point wiring schematics
 - Device compatibility document
 - Initiating device circuit
 - Notification appliance circuit (new audible and visual requirements)
 - Signaling line circuit
 - Smoke detector sensitivity test
 - Visual and functional tests
- NICET® Levels I and II
- INTRODUCTION TO NICET
- NICET History
 - The value of NICET certification
 - NICET requirements by State
 - 9 Steps to certification

UNDERSTAND NICET OPERATIONAL POLICIES

REVIEW THE FOUR CERTIFICATION CRITERIA

REVIEW THE EXAMINATION REQUIREMENT CHART

DISCUSS NICET TEST STRATEGIES

COMPLETE THE TECHNICIAN APPLICATION FORM

DISCUSS MATERIALS TO BRING TO A NICET TEST

NICET® LEVEL I ELEMENT REVIEW CORE ELEMENTS

- Basic fire alarm systems
- NFPA standards
- Basic wiring
- Device and components
- Periodic tests
- Basic electricity
- Metric units and conversions

NONCORE ELEMENTS

- Basic working drawings
- Basic mathematics
- Installation practices
- Basic communication skills

SPECIAL ELEMENTS

- Plans, specifications and contracts
- Basic physical science
- Fire warning equipment for dwelling units
- Basic individual safety
- First aid procedures

NICET® LEVEL II ELEMENT REVIEW CORE ELEMENTS

- Fire protection plans and symbols
- Basics of system layout
- Electrical installation standards
- Basic fire alarm signaling systems
- Supervision & supervisory service
- Detection methods
- Detector spacing
- Power supplies
- System acceptance and periodic tests

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COURSE AGENDA, continued

NONCORE ELEMENTS

- Construction plans
- Specifications and cost estimates
- Contracts
- Building codes
- Insurance authorities and their requirements
- Governmental agencies
- Protective premises fire alarm systems
- Auxiliary fire alarm systems
- Supervising station fire alarm systems
- Proprietary supervising station systems
- Central station fire alarm systems
- Manual fire alarm systems and guard's tour service
- Heat sensing fire detectors
- Smoke sensing fire detectors
- Radiant energy sensing fire detectors
- Sprinkler waterflow and supervisory devices
- Alarm notification appliances
- Basics of signal transmission
- Business communications
- Intermediate mathematics

SPECIAL ELEMENTS

- Emergency voice/alarm communication systems
- Signal processing
- Surveys for fire alarm and detection systems
- Fire alarm system maintenance
- Fire alarm system wiring
- Emergency evacuation signals
- Combination systems

