Fire Alarm Systems Certification

Level IV Content Outline

Senior Engineering Technician

The candidates for NICET certification at Level IV in Fire Alarm Systems should have the knowledge, experience and skills needed to work in the industry. They perform job tasks on complex and specialized systems. They manage multiple projects at once and serve as a liaison between AHJs, owners, engineers, and contractors. They can interpret codes and standards, supervise Level I, II, and III technicians, and take ownership of programs and training. Level IV technicians have at least 10 years of experience in fire alarm systems.

4.1 Installation, Planning, and Maintenance
(Questions related to these tasks make up 28-38% of the exam.)
4.1.1 Manage at department level (e.g., design, sales, operations, service). [2, 3, 5, 7, 9]
4.1.2 Oversee as-builts and other documents. [2, 4, 7]
4.1.3 Manage system commissioning process. [2, 4, 6, 7]
4.1.4 Budget project resources. [2, 7]

4.2 Submittal Preparation and System Layout
(Questions related to these tasks make up 26-36% of the exam.)
4.2.1 Oversee preparations and approve shop drawings. [2, 4, 6, 7, 9]

4.3 Complex Fire Alarm System Operations
(Questions related to these tasks make up 31-41% of the exam.)
4.3.1 Resolve complex detection scenarios. [2, 4]
4.3.2 Resolve complex notification scenarios. [2, 3, 4]
4.3.3 Specify specialty installation materials and methods. [2, 9. 10]
4.3.4 Develop fire alarm systems training programs. [1, 2, 7, 10, 11]
4.3.5 Manage industry relations. [2, 4, 7, 8, 11]

February 15, 2019   footnote number is linked to a reference on the Selected General References listing