(Updated Exams Release Date: March 25, 2024)
Fire Alarm Systems Certification

Level IV Content Outline

Senior Engineering Technician

Level IV FAS Technicians are senior-level technicians whose work includes installing and maintaining complex* and specialized systems. Level IV Technicians manage multiple projects at once and serve as liaison between AHJs, owners, engineers, contractors. They interpret codes, supervise Levels I-III Technicians, and take ownership of programs and training. Level IV Technicians have at least 10 years of experience in FAS.

Complex systems may include, but are not limited to, one or more of the following: suppression systems, networked control units, smoke control interfaces, air sampling systems, multi-zone voice evacuation systems and/or high-rise applications, and Emergency Responder Communication Enhancement Systems (ERCES) interfaces (such as DAS, BDA, IBPSC, etc.).

4.1   Installation, Planning, and Maintenance
(Questions related to these tasks make up 35-45% of the exam.)
4.1.1   Manage at department level (e.g., design, sales, operations, service). [1, 2, 3, 6, 7]
4.1.2   Oversee as-builts and close-out documents. [1, 2]
4.1.3   Manage system commissioning process. [1, 2, 3]
4.1.4   Budget project resources. [1, 2]

4.2   Submittal Preparation and System Layout
(Questions related to these tasks make up 10-20% of the exam.)
4.2.1   Oversee preparations and approve shop drawings. [1, 3]

4.3   Complex Fire Alarm System Operations
(Questions related to these tasks make up 40-50% of the exam.)
4.3.1   Resolve complex detection scenarios. [1, 3]
4.3.2   Resolve complex notification scenarios. [1, 3, 6]
4.3.3   Specify specialty installation materials and methods. [1, 3, 4]
4.3.4   Develop fire alarm systems training programs. [1, 2, 4, 5]
4.3.5   Manage industry relations. [1, 2, 3, 5]

August 22, 2024   footnote number is linked to a reference on the Selected General References listing