

**Special Hazards Systems****Level I Content Outline****Technician Trainee**

The candidates for NICET certification at Level I in Special Hazards Systems should have the knowledge, experience and basic skills needed to work in the industry. Under the direct supervision of a qualified technician, they identify wiring and devices and determine their purposes. They read and measure quantities, read drawings, and mount and remove devices and piping. Level I technicians have at least 6 months of experience in special hazards systems.

1.1 Inspection, Testing, and Maintenance

(Questions related to these tasks make up 43-49% of the exam.)

- 1.1.1 Identify system type and components. 1, 3, 4, 8, 10
- 1.1.2 Check the locations of an existing system's detection, control, and mechanical components for changes. 3, 4, 10
- 1.1.3 Visually inspect a site's construction features for changes. 1, 4, 10
- 1.1.4 Activate alarm initiating devices of a special hazard system. 1, 3
- 1.1.5 Determine whether container's agent quantify and/or pressure is within the documented range. 1, 4, 7, 9
- 1.1.6 Inspect cylinders and their discharge hoses for corrosion, physical damage, and hydrotest status. 4, 5, 6
- 1.1.7 Visually inspect piping and hangers for physical damage. 1, 4, 6

1.2 Repair and Recharge

(Questions related to these tasks make up 6-12% of the exam.)

- 1.2.1 Replace damaged wires. 2, 3, 13
- 1.2.2 Replace damaged mechanical system components. 1, 4

1.3 Installation

(Questions related to these tasks make up 22-28% of the exam.)

- 1.3.1 Obtain installation information from shop drawings. 3, 4
- 1.3.2 Install raceways and conduit. 2
- 1.3.3 Install piping for a special hazards system. 1, 3, 4, 6
- 1.3.4 Install air sampling piping. 3
- 1.3.5 Mount special hazards system components. 1, 4

1.4 System Design and Configuration

(Questions related to these tasks make up 11-17% of the exam.)

- 1.4.1 Derive installation information from architectural and engineering plans and specifications. 3, 4, 6
- 1.4.2 Identify basic electrical units and components. 3, 13
- 1.4.3 Identify the purposes of standards, codes, specifications, and manufacturer-specific listings and what professions and/or roles are involved in establishing and enforcing their use. 1, 3, 4

1.5 Work Management

(Questions related to these tasks make up 0% of the exam.)

No tasks at this Level.

1.6 Safety

(Questions related to these tasks make up 11-17% of the exam.)

- 1.6.1 Practice personal safety on the job site. 3, 11, 12, 13

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footnote number is linked to a reference on the Selected General References listing