



Water-Based Systems Layout Certification

Level I Content Outline

Technician Trainee

The candidates for NICET certification at Level I in Water-Based Systems Layout should have the knowledge, experience and basic skills needed to work in the industry. Under frequent supervision, they perform limited job tasks. They are students who are learning, like apprentices. They learn about flow tests, field checks, coordination, and data entry. They clean up drawings and plans. Level I technicians have at least 6 months of experience in water-based systems layout.

1.1 Safety

(Questions related to these tasks make up 1-7% of the exam.)

1.1.1 Obey jobsite safety requirements. 1, 12, 13, 14

1.2 Contract Documents

(Questions related to these tasks make up 5-15% of the exam.)

1.2.1 Gather information in plans and specifications. 1, 5, 7, 9

1.2.2 Learn scope of contracts (e.g., review bid documents with supervisor).

1.3 Survey Existing Conditions

(Questions related to these tasks make up 5-15% of the exam.)

1.3.1 Verify simple building plans via field surveys. 1

1.3.2 Obtain simple field data for existing fire protection systems. 1, 7

1.3.3 Identify elements of building construction (e.g., beam and column locations). 1, 11

1.4 Research Codes and Standards

(Questions related to these tasks make up 5-15% of the exam.)

1.4.1 Review code summary sheets. 1, 2, 3

1.4.2 Identify and document design standards. 1, 2, 3, 8

1.5 System Layout

(Questions related to these tasks make up 53-63% of the exam.)

1.5.1 Create a simple sprinkler system layout. 1, 6, 7

1.5.2 Perform basic hydraulic calculations. 1, 2, 3, 6, 7

1.5.3 Assist with flow tests. 1, 2, 4, 9, 10

1.5.4 Assist with surveys. 1, 10, 11

1.6 Assemble Submittal Packages

(Questions related to these tasks make up 1-9% of the exam.)

1.6.1 Assemble submittal packages. 1, 7

1.7 Project Correspondences

(Questions related to these tasks make up 1-9% of the exam.)

1.7.1 Document correspondences with AHJs. 1

1.7.2 Document project correspondences. 1

1.7.3 Assemble documents for closeout packages. 1, 10, 11