



# Water-Based Systems Layout Certification Level I Content Outline

(Updated Exams Released July 8, 2024)

## 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 learning much like a trainee or entry-level technician about flow tests, field checks, coordination, and data entry. They prepare and clean up drawings and plans and complete basic hydraulic calculations. 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, 4, 12, 13

### 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

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, 5, 11

### 1.4 Research Codes and Standards

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

1.4.1 Review contract code summary. 1, 2, 3

1.4.2 Identify design standards. 1, 2, 3, 6, 7, 8, 9

### 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, 2, 6, 7

1.5.2 Solve basic hydraulic equations. 1, 2, 3, 7

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

1.5.4 Assist with coordination surveys. 1, 10

### 1.6 Assemble Submittal Packages

(Questions related to these tasks make up 1-10% of the exam.)

1.6.1 Assemble submittal packages. 1

### 1.7 Project Correspondences

(Questions related to these tasks make up 1-10% 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

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Footnote number is linked to a reference on the General References listing