

**Inspection & Testing of Water-Based Systems Certification****Level II Content Outline****Associate Engineering Technician**

The candidates for NICET certification at Level II in Inspection & Testing of Water-Based Systems should have the knowledge, experience and basic skills needed to work in the industry. Under limited supervision, they inspect, test, and maintain wet, dry, standpipe, fire pump, private service mains, and water tanks. They verify that the system and components in place are reasonably operable as installed and document results for the responsible party. Level II technicians have at least 2 years of experience in water-based systems.

**2.1 Safety**

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

- 2.1.1 Implement proper use and maintenance of required PPE. 2, 6
- 2.1.2 Implement lockout/tagout. 2, 6
- 2.1.3 Address work hazards and implement procedures (e.g., confined spaces, holes, lighting, ceilings, ladders, and lifts). 2, 6
- 2.1.4 Ensure ladder safety and proper use. 2, 6, 7
- 2.1.5 Verify correct tools and equipment are used and maintained. 2, 3
- 2.1.6 Implement impairment procedures. 2

**2.2 Communication**

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

- 2.2.1 Coordinate with customers (e.g., pre-inspection reviews, review scope of work, and notifications). 2, 6
- 2.2.2 Verify that alarm companies, fire departments, and AHJs are contacted. 2, 3
- 2.2.3 Deliver results/findings of ITM tasks to the customer/applicable party. 2

**3.3 Perform, Document, and Interpret Intermediate ITM Tasks**

(Questions related to these tasks make up 75-85% of the exam.)

- 2.3.1 Perform ITM tasks for dry systems (e.g., QODs, air compressors, nitrogen generators, and air maintenance devices). 2, 5
- 2.3.2 Perform ITM tasks for wet systems (including antifreeze systems). 2, 3, 5
- 2.3.3 Perform ITM tasks for standpipe systems. 2
- 2.3.4 Perform ITM tasks for firepump systems. 1, 2, 3, 4
- 2.3.5 Perform ITM tasks for private fire service mains. 2, 4
- 2.3.6 Perform ITM tasks for water storage tanks. 2
- 2.3.7 Determine the need for obstruction investigations and prevention. 2
- 2.3.8 Perform assessments of the internal conditions of piping. 2
- 2.3.9 Identify and classify ITM deficiencies. 2

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