

**In-Building Public Safety Communications Certification****Level II Content Outline****Associate Engineering Technician**

The candidates for NICET certification at Level II in In-Building Public Safety Communications should have the knowledge, experience, and intermediate skills needed to work in the industry. Under limited supervision, they utilize radio frequency principles and equipment to conduct initial surveys, install, commission, and maintain in-building public safety communications. They are responsible for ensuring system evaluation, quality, acceptance, and complete documentation. Level II technicians have at least 2 years of experience in in-building public safety communications.

2.1 Defining the Project Scope

(Questions related to these tasks make up 15-25% of the exam.)

- 2.1.1 Review and interpret project specifications. 1, 2, 7, 9, 11, 13, 16
- 2.1.2 Review and interpret project drawings. 1, 2, 3, 4, 9, 10, 14, 19
- 2.1.3 Understand and comply with project schedules. 1, 5, 12, 15

2.2 Evaluating RF Signal Strength and Quality

(Questions related to these tasks make up 20-30% of the exam.)

- 2.2.1 Measure RF signal strength and quality. 1, 2, 4, 16, 18
- 2.2.2 Troubleshoot issues that impact RF performance. 1, 2, 4, 5, 8, 15, 16

2.3 Performing Rough Installation Activities

(Questions related to these tasks make up 15-25% of the exam.)

- 2.3.1 Test cable. 1, 3
- 2.3.2 Validate passive equipment installation. 1, 4, 5, 16
- 2.3.3 Verify electrical and grounding requirements. 2, 3

2.4 Performing Finish and Trim Out Installation Activities

(Questions related to these tasks make up 10-20% of the exam.)

- 2.4.1 Validate electrical and grounding installation. 1, 2, 3, 17
- 2.4.2 Interface with fire alarm systems. 2, 3, 4, 19

2.5 Performing Commissioning, Acceptance Test, and Maintenance Activities

(Questions related to these tasks make up 20-30% of the exam.)

- 2.5.1 Adjust headend and remote amplification equipment. 1, 2, 4, 6, 15, 16
- 2.5.2 Test system alarms. 2, 4
- 2.5.3 Test battery backup (BBU). 2, 4, 19

November 2024 Footnote number is linked to a reference on the Selected General References listing.