(Updated Exams Release Date: January 4, 2027)

Electrical Power Testing Certification

Level IV Content Outline

Senior Engineering Technician

The candidate for NICET certification as a Level IV Electrical Power Testing technician should have the knowledge and experience to: Conduct tests of complex metering and relay systems; evaluate tests, test equipment, test results, and power system performance; recommend actions to maintain or improve system performance; and lead multi-team projects.

4.1 Electrical Components & Testing

(Questions related to these tasks make up 25-35% of the exam.)

- 4.1.1 Test advanced electrical equipment and analyze results. 5, 10, 11, 13
- 4.1.2 Select and implement appropriate electrical acceptance and maintenance testing requirements. 1, 3, 8
- 4.1.3 Understand and recommend testing intervals, tolerances, and pass/fail criteria. 1, 2, 3, 13

4.2 Protection, Control, and Automation

(Questions related to these tasks make up 25-35% of the exam.)

- 4.2.1 Test advanced protective relaying. 4, 7, 16
- 4.2.2 Test and validate SCADA & automation components and systems. 1, 13
- 4.2.3 Test electrical apparatus protection schemes. 7, 15
- 4.2.4 Implement and/or modify functional logic programming. 9, 15, 16

4.3 Electrical Theory

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

- 4.3.1 Apply advanced electrical theory. 3, 6, 7, 9, 12
- 4.3.2 Perform advanced power calculations. 3, 4, 7, 14, 16

4.4 Jobsite Work Safety

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

- 4.4.1 Identify specific safety requirements. 14

4.5 Documentation and Reporting

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

- 4.5.1 Interpret collected data and perform analysis. 2, 3, 5, 12
- 4.5.2 Recognize industry standards for data submission. 8 14
- 4.5.3 Reconcile as-built conditions. 13

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

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