



(Updated Exams Release Date: October 5, 2026)

Electrical Power Testing Certification

Level II Content Outline

Associate Engineering Technician

The candidate for NICET certification as a Level II Electrical Power Testing technician should have the knowledge and experience to: Under limited supervision, isolate and ground power equipment safely; connect test equipment; and conduct and document standard tests. They have at least 2 years of experience in EPT.

2.1 Safety Procedures

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

- 2.1.1 Apply lockout/tagout procedures. 9, 10
- 2.1.2 Apply general safety guidelines. 3, 7, 9, 10
- 2.1.3 Understand test equipment safety. 1, 3, 7, 8
- 2.1.4 Apply personal protective equipment (PPE). 3, 9, 10

2.2 General Testing

(Questions related to these tasks make up 32-42% of the exam.)

- 2.2.1 Demonstrate testing knowledge for medium voltage (MV) switches. 1, 3
- 2.2.2 Demonstrate testing knowledge of cables (medium-voltage and low-voltage). 1, 2, 3
- 2.2.3 Demonstrate testing knowledge of transformers. 1, 3, 6, 8, 11
- 2.2.4 Demonstrate testing knowledge of rotating machinery. 3, 8
- 2.2.5 Demonstrate testing knowledge of switchgear and motor control centers. 1, 2, 3, 8
- 2.2.6 Demonstrate testing knowledge of low-voltage and medium-voltage circuit breakers. 1, 2, 3, 7, 8
- 2.2.7 Demonstrate testing knowledge of relays and metering. 1, 2, 3
- 2.2.8 Demonstrate testing knowledge of surge protection, capacitors, reactors, arrestors. 1, 2, 8
- 2.2.9 Demonstrate testing knowledge of grounding systems. 2, 3, 4
- 2.2.10 Demonstrate testing knowledge of battery systems. 1, 3, 8
- 2.2.11 Compare test results to standard or like equipment. 1, 2, 3

2.3 Documentation and Standards

(Questions related to these tasks make up 13-23% of the exam.)

- 2.3.1 Recognize nameplate data. 3, 6, 7, 8
- 2.3.2 Record test data. 1, 3, 11
- 2.3.3 Identify the most common IEEE/ANSI electrical device function numbers. 5
- 2.3.4 Recognize the scope of standards and regulatory organizations. 1, 4, 7

2.4 Electrical Theory and Troubleshooting

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

- 2.4.1 Apply fundamental electrical laws to simple circuits. 3, 11
- 2.4.2 Troubleshoot basic electrical problems. 2, 3, 5, 11

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