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Electrical Power Testing Certification

Level III Content Outline

Engineering Technician

The candidate for NICET certification as a Level III Electrical Power Testing technician should have the knowledge and experience to: Manage switching procedures; conduct tests of complex (multi-function) equipment; analyze test and equipment data; plan a job and lead a team. They have at least 5 years of experience in EPT.

3.1 Site Specific Safety Plans
(Questions related to these tasks make up 2-12% of the exam.)

3.1.1 Develop a worksite safety plan. 3, 14

3.2 Project Testing (Job) Plans
(Questions related to these tasks make up 2-12% of the exam.)

3.2.1 Develop a site testing plan. 1, 2, 3, 6, 12, 14

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

3.3.1 Interpret and analyze test results. 1, 2, 3, 6, 7

3.3.2 Make assessments about the condition and serviceability of equipment. 1, 2, 3, 5, 6, 13

3.4 Advanced Testing/System Testing
(Questions related to these tasks make up 21-31% of the exam.)

3.4.1 Perform switchgear and circuit breaker testing, and analyze results. 1, 2, 3, 8, 13, 15

3.4.2 Perform transformer testing and analyze results. 1, 3

3.4.3 Perform cable testing and analyze results. 1, 2, 3, 5

3.4.4 Perform rotating machine testing and analyze results. 1, 2, 3

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

3.5.1 Demonstrate an understanding of arc flash mitigation techniques. 12, 14

3.5.2 Demonstrate an understanding of complex electrical concepts. 5, 15, 16

3.5.3 Demonstrate an understanding of grounding theory. 3, 7

3.6 Electrical Documentation
(Questions related to these tasks make up 7-17% of the exam.)

3.6.1 Verify that electrical documents conform to nameplates and actual site conditions. 2, 8, 10, 14, 15, 16

3.6.2 Recognize essential components of short-circuit, protective device coordination, and arc flash studies. 4, 5, 12, 14, 16

3.7 Protection, Control, and Automation
(Questions related to these tasks make up 10-20% of the exam.)

3.7.1 Test advanced protective relaying elements. 3, 5, 15

3.7.2 Perform instrument transformer testing and analyze results. 1, 3, 10, 15

3.7.3 Identify Supervisory Control and Data Acquisition (SCADA) and automation system components and approaches. 11

3.7.4 Perform multifunction protective relay and meter test. 2, 5, 8

3.7.5 Develop and execute functional test plans of electrical systems. 11

3.7.6 Troubleshoot Protection & Control (P&C) Systems. 8, 9, 15

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