NAT'L TRAINING CENTER™

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TRAINING SYLLABUS

Course Number: 6.0.0
CEU Assignment: 0.6
NETA CTD: 8
Course Title: Insulation Theory for Electrical Testing

Course Description

Introduces the new technician to and provides essential knowledge for the experienced technician on the theory and sciences associated with electrical insulation. This training covers: the characteristics of insulation materials, key terms associated with insulation (dielectric) theory, and the properties of insulating material. This training covers the various methods of non-destructive field testing for insulating material. This is a full day, 8 hour, classroom course.

Fee / Class Size: $450 per trainee, 4 trainee minimum - 12 trainee maximum*
Prerequisites: Proficiency in Basic DC Theory
Course Duration: 1 day at 8 hours

Contact Information

Steve Newton, SET (NICET Level IV/ NETA Level IV)
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Course Objectives

- Explain the three characteristics of insulation materials
- Explain key terms associated with insulation (dielectric) theory
- Describe the properties of insulating materials
- Describe the characteristics of insulating materials
- Describe the non-destructive testing for insulating materials

Performance Tasks

- Select an appropriate Insulation Resistance Test Set to test both a 15kV cable and 480 volt equipment
- Properly prepare and test a 15kV cable including DAR and PI
- Properly document the insulation testing on 15kV cable
- Properly execute and document an insulation resistance test on a 480 volt MCC bus
- Locate and set up a DC over-potential test set and demonstrate how you would prove the test set is working properly

Required Student Materials: PowerPoint (provided)
Outcome Measurement: 20 Question Written Test / Practical
Grading Policy: Min. 70% to pass / PASS-FAIL

*Assumes classes are held in Lewisville, TX. On-site training is available for an additional travel charge.