



Electrical Training Phase II

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This five-day course begins with a review of electrical safety topics. Next, substation equipment is explained followed by a description of 480V switchgear and 4.16 kV equipment. The final portion of the course explains grounding principles and applications and test equipment.

I. Electrical Safety

- Electrical Safety Standards
- Electrical Shock

II. Substation Basics

- Substation Overview
- DC Systems
- Introduction to Battery Maintenance
- DC Machine Maintenance
- AC Systems

III. 480 Volt Switchgear

- Functional Description
- Operating Procedures
- Installation Procedures
- Removal Procedures
- Breaker Operating Procedures
- Breaker Interlocks

IV. 4.16 KV Equipment

- 4160 Volt Switchgear
- Breaker Removable Element
- Bus Compartment
- Current Transformer Compartment
- Primary Termination Space
- Voltage Transformers

V. Grounding Procedures

- General
- Protective Grounding Principles
- Inspecting and Testing of Protective Grounding Equipment
- Switchyard and Substation Clearance Grounding

VI. Fluke Multimeter

- Fluke 787
- Measuring Electrical Parameters
- Using TouchHold
- Compensating for Test Lead Resistance
- Using the Current Output Functions
- Power-Up Options
- Maintenance

VII. Test Equipment

- Types of Test Equipment
- Safety Precautions When Using Test Equipment