Electrical Training Phase II
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

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