

# **Base Technical & Critical Environments**

Understanding electrical distribution systems and equipment is essential to guaranteeing power continuity, performance, and safety for critical equipment and the personnel who maintain them. The correct installation, operation and maintenance of these systems save thousands of dollars, prevent equipment damage, and prevent accidents, while ensuring system availability. The purpose of this course is to provide a comprehensive overview of typical electrical systems present at critical data sites. The instructor will utilize lectures, plant walkthroughs, case history examinations, and hands-on demonstrations to provide the greatest possible exposure to typical electrical equipment and configurations. Anyone who works on or near power generation, transmission, or distribution systems, and any new employees should attend this course.

Course Duration: 4 days

### **BASE TECHNICAL & SAFETY**

General Safety Overview Review of LOTO Don, Doff & Adjustment of PPE Limitations of PPE Safety Program Updates Fluke Meter Overview Fluke Meter Hands on Schematics & Diagram Analysis Facility One Line Diagram Analysis

## LOW VOLTAGE SWITCHGEAR

Low Voltage Safety Design and Construction Circuit Breaker Construction and Maintenance Ground Fault Protection Contactor Construction Fuses Thermal Overloads Nameplate Data and Reading

### MEDIUM VOLTAGE SWITCHGEAR

Medium Voltage Safety Power Distribution Codes and Standards Grounding Components Switchboard Inspections

## **BATTERIES & UPS SYSTEMS**

Introduction Battery Construction Battery Testing Battery Load Testing Battery Charging Battery Safety UPS Operations

#### GENERATORS

Codes and Standards Power System Overview Function Design System Operation Maintenance & Troubleshooting Case Studies

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