

Critical Electrical Operations

Understanding the operation, maintenance, troubleshooting, and application of facility electrical systems is instrumental in ensuring a safe and reliable operation. This class covers the safe operation of a facility electric plant to include recognition of specific hazards and safe switching. System design and layout are reviewed to gain a clear understanding of the system as a whole. UPS distribution and large frame circuit breaker operation and maintenance are reviewed in detail. Anyone responsible for the operation or maintenance of the electric plant should attend. Those needing to ensure a proper response to a substation emergency should also attend.

Course Duration: 16 hours

INTRODUCTION SAFETY

Hazards Protection

UPS SYSTEM DESIGN

Configuration
Equipment Overview

OPERATION

By Pass UPS COD Board Operations Review Failure Scenarios Reset of RPP following loss

- Input Breaker Fails
- Output Breaker Fails
- PDU Fails

Review Existing MOPS Review paralleling generators, switchgear, and applicable Kirk key operation

SWITCHING

Safety Procedures Equipment Emergencies

SYSTEM WALKTHROUGHS

Course includes 8 hours of in plant walk-throughs

CONCLUSION