

POWER DISTRIBUTION

COURSE: SUBSTATION MAINTENANCE

DESCRIPTION: The National Fire Protection Association recommends routine maintenance to be performed on distribution switchgear. In order to properly perform this maintenance, personnel need to be familiar with low and medium voltage power systems. This includes the understanding of specific distribution system bus configurations, switching operations, key interlocks, system lockout requirements, and distribution system maintenance techniques for industrial facilities.

This site-specific training program meets all State and Federal OSHA training requirements of personnel operating and working on power distribution systems. The NFPA 70E requirements regarding arc flash protection will also be discussed.

Supplemented by graphic videos, stimulating class discussions, and interactive power point presentations, this course has the impact required to ensure the employee actually uses the procedures taught.

DURATION: 5 DAYS

FORMAT: Power Point Presentation
Instructor Demonstrations
Participant Hands-On

AUDIENCE: Electrical Skilled Trades, Supervisors, Engineers and any other personnel involved in the operation or maintenance of power distribution equipment.

OBJECTIVE: This training program will enable personnel to:

- Safely troubleshoot and restore from power outages on power distribution systems, thus reducing costly downtime
- Perform NETA and manufacturer recommended maintenance
- Reduce maintenance costs
- Comply with OSHA and NFPA safety standards for substation work
- Gain confidence through real hands-on training

TOPICS: Electrical Safety
Substation Construction and Operation
Switchgear Maintenance
Transformer Fundamentals and Maintenance
Circuit Breaker Fundamentals and Maintenance
Introduction to protective relaying



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