Electrical Equipment Transformers, Inverters, Rectifiers, Uninterruptible Power Systems, Generators Training

Description

Course Description:

This course will provide a comprehensive understanding of the various types of transformers, inverters, rectifiers, motors, variable frequency drives, uninterruptible power systems, generators, circuit breakers, and fuses. This seminar will focus on maximizing the efficiency, reliability, and longevity of this type equipment by providing an understanding of the characteristics, selection criteria, common problems and repair techniques, preventive and predictive maintenance.

This course is a MUST for anyone whis involved in the selection, applications, or maintenance of electrical equipment because it covers how this equipment operates, the latest maintenance techniques, and provides guidelines and rules that ensure the successful operation of this equipment.

In addition, this course will cover in detail the basic design, operating characteristics, specification, selection criteria, advanced fault detection techniques, critical components and all preventive and predictive maintenance methods in order tincrease reliability of the equipment and reduce the operation and maintenance cost.

This course will provide the following information for all electrical equipment:

- Basic Design
- Specification
- Selection Criteria
- Sizing Calculations
- Enclosures and Sealing Arrangements
- Codes and Standards
- Common Operational Problems
- All Diagnostics, Troubleshooting, Testing, and Maintenance

Course Outlines:

Equipment Operation:

- Gain a thorough understanding of the operating characteristics of all electrical equipment

Equipment Diagnostics and Inspection:

- Learn in detail all the diagnostic techniques and inspections required of critical components of electrical equipment.

Equipment Testing:

- Understand thoroughly all the tests required for the various types of electrical equipment

Equipment Maintenance and Troubleshooting:

- Determine all the maintenance and troubleshooting activities required tminimize electrical equipment downtime and operating cost

Equipment Repair and Refurbishment:

- Gain a detailed understanding of the various methods used trepair and refurbish all electrical equipment

Efficiency, Reliability, and Longevity:

- Learn the various methods used tmaximize the efficiency, reliability, and longevity of all types of electrical equipment

Equipment Sizing:

- Gain a detailed understanding of all the calculations and sizing techniques used for all electrical equipment

Design Features:

- Understand all the design features that improve the efficiency and reliability of all electrical equipment

Equipment Selection:

- Learn how tselect electrical equipment by using the performance characteristics and selection criteria that you will learn in this course

Equipment Enclosures and Sealing Methods

- Learn about the various types of enclosures and sealing arrangements used for electrical equipment

Equipment Commissioning:

- Understand all the commissioning requirements for electrical equipment

Equipment Codes and Standards:

- Learn all the codes and standards applicable for electrical equipment

Equipment Causes and Modes of Failure:

- Understand electrical equipment causes and modes of failure

System Design:

- Learn all the requirements for designing different types of electrical systems