

# Electrical Equipment Transformers, Inverters, Rectifiers, Uninterruptible Power Systems, Generators Course

## Venue Information

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**Venue:** London UK

**Place:**

**Start Date:** 2025-09-08

**End Date:** 2025-09-12

## Course Details

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**Net Fee:** £4750.00

**Duration:** 1 Week

**Category ID:** EAPET

**Course Code:** EAPET-19

## Syllabus

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### 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 of 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 who is 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.

## **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 to minimize electrical equipment downtime and operating cost.

### **Equipment Repair and Refurbishment**

Gain a detailed understanding of the various methods used to repair and refurbish all electrical equipment.

### **Efficiency, Reliability, and Longevity**

Learn the various methods used to maximize the efficiency, reliability, and longevity of all types of electrical equipment.

### **Equipment Sizing**

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

### **Equipment Selection**

Learn how to select 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.