

## Electrical Generator Operations and Maintenance

*Brussels (Belgium)*

*15 - 19 July 2024*

UK Training

# PARTNER



# Electrical Generator Operations and Maintenance

Code: OC28 From: 15 - 19 July 2024 City: Brussels (Belgium) Fees: 4700 Pound

## Introduction

The Electrical Generator Operations and Maintenance course is a comprehensive program designed to provide participants with a solid understanding of electrical generator cycles, generator details, maintenance procedures, programming control, and preventive maintenance techniques. This course aims to equip individuals with the necessary knowledge and skills to effectively operate and maintain electrical generators, ensuring optimal performance and longevity.

## Objectives

- To familiarize participants with the fundamental principles and concepts of electrical generator cycles.
- To provide an in-depth understanding of generator details, components, and their functions.
- To develop participants' proficiency in programming control systems for electrical generators.
- To equip participants with the knowledge and techniques required for effective preventive maintenance of electrical generators.
- To enhance participants' troubleshooting skills and their ability to address common generator-related issues.

## Course Outline

### Day 1

#### Introduction to Electrical Generator Cycles

- Overview of electrical generator cycles
- Types of generators: AC and DC
- Generator operating principles
- Generator classifications and applications

### Day 2

#### Generator Details and Components

- Generator construction and components
- Excitation systems
- Voltage regulation and control
- Cooling and ventilation systems
- Protective devices and safety considerations



### Day 3

#### Programming Control for Electrical Generators

- Introduction to generator control systems
- Control system architecture and components
- Generator synchronization and parallel operation
- Automatic control modes and settings
- Data monitoring and diagnostics

### Day 4

#### Preventive Maintenance for Electrical Generators

- Importance of preventive maintenance
- Maintenance planning and scheduling
- Inspection and testing procedures
- Lubrication and cooling system maintenance
- Electrical and mechanical component maintenance

### Day 5

#### Troubleshooting and Problem Resolution

- Common generator issues and their causes
- Diagnostic techniques and tools
- Troubleshooting methodologies
- Emergency response procedures
- Case studies and practical exercises



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