

Electrical Generator Operations and Maintenance

London (UK)

12 - 16 May 2025

UK Training

PARTNER



Electrical Generator Operations and Maintenance

Code: OC28 From: 12 - 16 May 2025 City: London (UK) Fees: 5200 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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International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



training@blackbird-training.com



www.blackbird-training.com

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