

TRAINING TITLE

BASIC POWER GENERATOR AND EMERGENCY POWER

Training Duration

5 day

Training Venue and Dates

Ref. No. EE160	Basic Power Generator and Emergency Power	5	16-20 June 2025	\$5,500	DUBAI, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This course provides an introduction to the operation, maintenance, and troubleshooting of basic power generators, with a focus on emergency power systems. Participants will learn about different types of generators, their components, and how to ensure their reliable performance during power outages or emergency situations.

TRAINING OBJECTIVES

By the end of the course, participants will be able to understand

- Understand the basic principles of power generation.
- Learn how different types of generators work (diesel, gas, and backup generators).
- Gain knowledge on the installation, operation, and maintenance of emergency power systems.
- Develop troubleshooting skills for common generator issues.
- Learn safety protocols for operating and maintaining generators.

WHO SHOULD ATTEND?

- Maintenance engineers and technicians.
- Facility managers and operations staff.
- Electrical engineers and professionals working with power systems.

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- Anyone interested in gaining knowledge about power generators and emergency power solutions.

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE PROGRAM

Day 1: Introduction to Power Generation

- Basic principles of electricity generation
- Overview of different types of power generators (diesel, gas, portable, standby)
- Generator components and their functions
- How generators produce electricity

Day 2: Emergency Power Systems

- Overview of emergency power systems and their importance
- Types of emergency power systems (standby, prime, continuous)
- Automatic Transfer Switch (ATS) and its role
- Load management in emergency power situations

Day 3: Installation and Operation of Power Generators

- Site selection and installation procedures
- Connecting generators to load systems
- Operating and monitoring generators
- Understanding generator controls and instrumentation

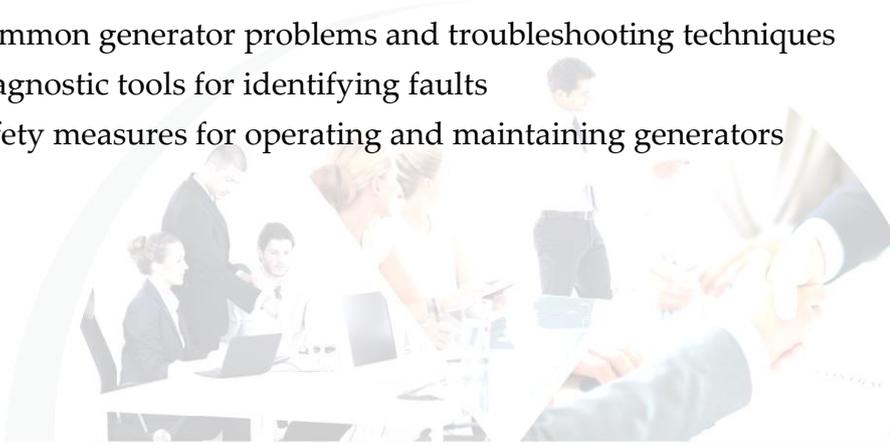
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Day 4: Maintenance of Power Generators

- Routine maintenance tasks for generators
- Fuel management and storage
- Cooling, lubrication, and exhaust systems maintenance
- Common issues and how to prevent them

Day 5: Troubleshooting and Safety Protocols

- Common generator problems and troubleshooting techniques
- Diagnostic tools for identifying faults
- Safety measures for operating and maintaining generators



NOTE:

Pre-& Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.



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