

# € TRAINING

Uninterruptible Power Supply UPS

A group of four smiling professionals (two men and two women) in a meeting. They are wearing white shirts. The woman in the foreground is wearing a black top and a necklace. The background is blurred, showing a modern office setting.

29 September -  
3 October 2024  
Cairo (Egypt)



# Uninterruptible Power Supply UPS

REF: O2366 DATE: 29 September - 3 October 2024 Venue: Cairo (Egypt) - Fee: 4465 Euro

## Introduction:

This training program offers participants an in-depth exploration of UPS systems and their management strategies. By mastering advanced UPS management principles, participants will enhance their ability to mitigate downtime and protect sensitive equipment from power disruptions.

## Program Objectives:

At the end of this program, participants will be able to:

- Understand the principles and components of Uninterruptible Power Supply UPS systems.
- Implement best practices for UPS installation, configuration, and maintenance.
- Troubleshoot common UPS issues and perform repairs effectively.
- Develop strategies to optimize UPS performance and maximize uptime.
- Ensure compliance with safety standards and regulatory requirements in UPS management.

## Targeted Audience:

- Facilities Managers.
- Data Center Technicians.
- Electrical Engineers.
- IT Professionals.
- Maintenance Personnel.
- Energy Managers.

## Program Outline:

### Unit 1:

#### Introduction to Uninterruptible Power Supply UPS Systems:

- Overview of UPS technologies and configurations.
- Components and operation of UPS systems.

- Types of UPS systems: Offline, Line-Interactive, Online.
- Importance of UPS in ensuring power continuity for critical loads.
- Selection criteria for UPS systems based on application requirements.

## Unit 2:

### UPS Installation and Configuration:

- Best practices for UPS installation and setup.
- Sizing UPS systems for specific applications.
- Configuring UPS parameters for optimal performance.
- Integration of UPS systems with electrical distribution systems.
- Compliance considerations for UPS installation according to industry standards.

## Unit 3:

### UPS Maintenance and Monitoring:

- Preventive maintenance procedures for UPS systems.
- Monitoring UPS performance and status indicators.
- Battery maintenance and replacement strategies.
- Steps for implementing predictive maintenance techniques for UPS.
- Developing a comprehensive UPS maintenance schedule.

## Unit 4:

### Troubleshooting UPS Systems:

- Common UPS problems and failure modes.
- Diagnostic tools and techniques for UPS troubleshooting.
- Isolating and diagnosing UPS faults.
- Repair and replacement of UPS components.
- Conducting root cause analysis for UPS failures.



## Unit 5:

### Optimization and Management of UPS Systems:

- Strategies for optimizing UPS performance and efficiency.
- Load management and capacity planning for UPS.
- Redundancy and failover configurations in UPS systems.
- Regulatory compliance and safety considerations in UPS management.
- Developing a UPS management plan for ongoing monitoring and optimization.