

€ TRAINING

Uninterruptible Power Supply UPS



1 - 5 September 2024
Sharm El-Sheikh (Egypt)



Uninterruptible Power Supply UPS

REF: O2366 DATE: 1 - 5 September 2024 Venue: Sharm El-Sheikh (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.