



*Training Course:
Uninterruptible Power Supply (UPS)*

*16 - 20 May 2027
Cairo (Egypt)*

Training Course: Uninterruptible Power Supply (UPS)

Training Course code: EN234609 From: 16 - 20 May 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Uninterruptible Power Supply UPS systems are critical for ensuring continuous power to sensitive and mission-critical equipment by protecting against outages, voltage fluctuations, and electrical disturbances. Reliable UPS design and operation are essential for maintaining uptime in data centers, hospitals, industrial plants, and commercial facilities.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to design, install, operate, and maintain UPS systems in accordance with industry best practices.

Course Objectives

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

- Understand UPS system principles and types
- Identify key components and system architecture
- Perform load analysis and select appropriate UPS systems
- Apply installation and commissioning procedures
- Manage battery systems and lifecycle
- Monitor system performance and ensure reliability
- Diagnose and troubleshoot UPS issues
- Ensure compliance with safety and operational standards

Target Audience

This program is designed for:

- Electrical and Power Engineers
- Facility and Maintenance Engineers
- Data Center and IT Infrastructure Professionals
- Technicians working with power systems
- Operations and Reliability Personnel
- Professionals responsible for critical power systems

Outline

Day 1: Fundamentals of UPS Systems

- Overview of UPS applications and importance
- Types of UPS offline, line-interactive, online
- Components: rectifier, inverter, batteries, bypass systems
- Power quality issues and protection
- Basic operation principles

Day 2: UPS Design and Selection

- Load analysis and system sizing
- Redundancy and configuration N+1, parallel systems
- Battery technologies and selection
- Integration with electrical systems
- Environmental considerations

Day 3: Installation, Testing, and Commissioning

- Installation best practices
- System configuration and setup
- Functional testing and commissioning
- Performance validation
- Documentation and handover

Day 4: Operation and Maintenance

- System operation and monitoring
- Preventive and predictive maintenance
- Battery management and lifecycle
- Identifying and resolving common issues
- Safety procedures

Day 5: Troubleshooting and Optimization

- Fault diagnosis and troubleshooting techniques
- Performance optimization and load management
- Reliability improvement strategies
- Energy efficiency considerations
- Case studies and real-world applications

Registration form on the Training Course: Uninterruptible Power Supply (UPS)

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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