



*Training Course:
Uninterruptible Power Supply Systems*

*27 June - 1 July 2027
Cairo (Egypt)*

Training Course: Uninterruptible Power Supply Systems

Training Course code: EN234656 From: 27 June - 1 July 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Uninterruptible Power Supply UPS systems are essential for maintaining continuous power to critical loads and protecting equipment from power disturbances such as outages, surges, and voltage fluctuations. Reliable UPS design, operation, and maintenance are vital for ensuring business continuity in data centers, healthcare facilities, industrial plants, and commercial buildings.

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

Course Objectives

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

- Understand UPS system principles and configurations
- Identify key components and system architecture
- Analyze load requirements and select appropriate UPS solutions
- Apply installation and commissioning best practices
- Perform maintenance and battery management
- Diagnose and troubleshoot UPS system faults
- Improve system reliability and performance
- 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 infrastructure

Outline

Day 1: Fundamentals of UPS Systems

- Overview of UPS systems and applications
- Types of UPS offline, line-interactive, online/double conversion
- Components: rectifier, inverter, batteries, static switch
- Power quality issues and protection
- Basic system operation

Day 2: UPS Design and System Configuration

- Load analysis and UPS sizing
- Redundancy strategies N+1, parallel systems
- Battery technologies and selection
- Integration with electrical distribution systems
- Environmental and site considerations

Day 3: Installation, Testing, and Commissioning

- Installation standards and procedures
- System configuration and setup
- Functional testing and commissioning
- Performance verification
- Documentation and handover

Day 4: Operation, Monitoring, and Maintenance

- UPS operation and control systems
- Monitoring tools and alarms
- Preventive and predictive maintenance
- Battery management and lifecycle
- Safety practices and procedures

Day 5: Troubleshooting, Optimization, and Case Studies

- 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 Systems

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

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