



*Training Course:
Uninterruptible Power Supply (UPS)*

*8 - 12 August 2027
Cairo (Egypt)*

Training Course: Uninterruptible Power Supply (UPS)

Training Course code: EN234665 From: 8 - 12 August 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Uninterruptible Power Supply UPS systems are critical for ensuring continuous power availability and protecting sensitive equipment from power disturbances such as outages, voltage fluctuations, and surges. UPS systems are widely used in data centers, healthcare facilities, industrial operations, and commercial buildings to maintain operational continuity and prevent data loss or equipment damage.

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 accordance with industry standards and best practices.

Course Objectives

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

- Understand the principles and types of UPS systems
- Identify UPS components and system architecture
- Select appropriate UPS systems based on load requirements
- Analyze power quality issues and mitigation strategies
- Perform installation, testing, and commissioning of UPS systems
- Implement maintenance and battery management practices
- Troubleshoot UPS faults and failures
- 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 involved in power systems
- Operations and Reliability Personnel
- Professionals responsible for critical power systems

Outline

Day 1: Fundamentals of UPS Systems

- Overview of UPS and its applications
- Types of UPS systems offline, line-interactive, online
- UPS components and system architecture
- Power quality issues and disturbances
- Basic operation principles

Day 2: UPS Design and Selection

- Load analysis and sizing of UPS systems
- Redundancy and system configurations N+1, parallel systems
- Battery technologies and selection
- Integration with power distribution systems
- Environmental and installation considerations

Day 3: Installation, Testing, and Commissioning

- Installation procedures and best practices
- System configuration and setup
- Testing and commissioning methods
- Performance validation
- Documentation and handover

Day 4: Operation, Maintenance, and Battery Management

- UPS operation and monitoring
- Preventive and predictive maintenance
- Battery management and lifecycle considerations
- Identifying and resolving common issues
- Safety practices

Day 5: Troubleshooting, Optimization, and Case Studies

- Diagnosing UPS faults and failures
- Performance optimization techniques
- Energy efficiency and load management
- Reliability improvement strategies
- Case studies and real-world applications

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

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