

Advanced UPS Systems: Installation, Commissioning & Critical Power Operations

5 – 9 October 2026
Amsterdam (Netherlands)

UK Training

PARTNER

The background of the entire page features a grayscale image of chess pieces on a checkered board. In the foreground, a large gold king piece and a silver pawn are prominent. To the left, another silver pawn is visible. In the background, a gold pawn and another silver pawn are partially visible. Overlaid on this image are several concentric, light gray circles that radiate from the center, creating a ripple effect.

Advanced UPS Systems: Installation, Commissioning & Critical Power Operations

Ref: 3255651_347397 **Date:** 5 – 9 October 2026 **Location:** Amsterdam (Netherlands) **Fees:** 5900 GBP

Introduction

Uninterruptible Power Supply UPS systems are among the most critical power protection solutions used in modern facilities. They ensure the continuous operation of essential equipment during unexpected power outages, voltage fluctuations, and electrical disturbances. In today's advanced critical power environments, understanding UPS systems is no longer limited to theory—it requires solid practical skills in installation, commissioning, and real-world troubleshooting.

This comprehensive training program delivers a well-balanced combination of theoretical knowledge and hands-on experience. Participants will develop a deep understanding of UPS systems, their components, and operating principles, while also gaining practical expertise through real-life simulations, commissioning scenarios, and fault diagnosis exercises.

The course also emphasizes the vital role of UPS systems in data centers, healthcare facilities, telecommunications infrastructure, and industrial operations. It focuses on ensuring reliability, improving efficiency, and maintaining operational continuity. In addition, participants will explore battery technologies, system configurations, and advanced solutions such as Diesel Rotary Uninterruptible Power Supply DRUPS.

By integrating theory with practical application, this course prepares participants to confidently install, commission, maintain, and troubleshoot UPS systems in real-world critical power environments.

Course Objectives

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

- Clearly understand UPS systems, their functions, and operational importance
- Differentiate between various UPS types and their applications
- Install and configure UPS systems safely and efficiently
- Perform commissioning procedures and system startup
- Diagnose faults and interpret alarms in real scenarios
- Understand battery systems, maintenance practices, and lifecycle management
- Select appropriate UPS solutions based on load requirements
- Apply best practices in critical power and data center environments

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The background shows concentric circles emanating from behind the king piece.

Course Outlines

Day 1: UPS Fundamentals

- Understand UPS systems and their role in ensuring power continuity in critical environments
- Explore different UPS types Online, offline, and Line-Interactive and their practical applications
- Identify power quality issues and apply appropriate protection strategies
- Compare UPS systems with standby generators
- Recognize key components such as rectifiers, inverters, and batteries
- Interpret single-line diagrams and relate them to real systems
- Perform a system walkthrough with initial setup to understand operational flow

Day 2: Battery Systems & Installation

- Explore battery technologies and their real-world applications
- Understand charging methods and lifecycle management
- Apply installation standards and safety procedures
- Inspect and prepare battery banks for operation
- Execute cable connections and verify correct polarity
- Follow pre-installation checklists to ensure system readiness

Day 3: UPS Commissioning & Startup

- Understand commissioning procedures and proper documentation
- Perform system testing and verify operational performance
- Simulate UPS startup in a controlled, practical environment
- Conduct load testing and evaluate system performance during transfer
- Operate bypass mode and perform synchronization procedures

Day 4: Troubleshooting & Maintenance

- Identify common UPS faults and failure patterns
- Apply preventive and corrective maintenance strategies
- Simulate faults such as battery failure, overload, and inverter issues
- Analyze alarms and diagnose issues effectively
- Use monitoring tools and software to assess system performance

Day 5: Advanced Systems & Real Applications

- Understand parallel UPS systems and redundancy concepts N+1
- Explore DRUPS systems in critical environments
- Examine UPS applications in data centers and industrial settings
- Apply real-world operational scenarios
- Execute commissioning checklists in practical situations
- Solve advanced troubleshooting cases, including data center scenarios

A graphic of a chessboard with several chess pieces (a king, a queen, and a rook) in the foreground. The text 'UK Training' is written in a small, black sans-serif font, and 'PARTNER' is written in a large, bold, black sans-serif font below it.

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Why Attend this Course: Wins & Losses!

- Gain a strong balance between theory and hands-on experience
- Develop real commissioning and troubleshooting skills
- Learn how to operate effectively in critical power environments
- Improve your ability to prevent failures and reduce downtime
- Build confidence for field service and commissioning roles
- Understand practical UPS applications across key industries

Conclusion

In modern critical power environments, theoretical knowledge alone is not enough—practical expertise is essential. This course bridges the gap between understanding and application, equipping participants with the skills required to confidently install, commission, maintain, and troubleshoot UPS systems.

Join this program to gain a complete, practical understanding of UPS technologies and to prepare for real-world challenges in critical power and data center environments.

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