Global Horizon
TRAINING CENTER

Training Course:
Power Management Systems (PMS)

25 - 29 August 2025
London (UK)
Landmark Office Space - Portman Street

Training Course:
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Training Course code: EN236107 From: 25 - 29 August 2025 Venue: London (UK) - Landmark Office Space - Portman Street Training Course Fees: 6500 Euro

Introduction

As the demand for efficient, reliable, and safe power systems increases across industries, Power Management Systems PMS have become essential in modern electrical infrastructure. This program equips electrical engineers and technical managers with advanced competencies to design, implement, and manage PMS for energy optimization, fault management, and future-ready operations. Covering foundational principles, integration with digital systems, and emerging technologies like AI and IoT, the course prepares participants to meet complex energy challenges head-on.

Learning Goals

- Understand PMS architecture and operational principles.
- Learn how to integrate PMS components in varied power environments.
- Build capabilities in energy monitoring, fault diagnosis, and system reliability.
- Utilize advanced PMS software for analysis and control.
- Explore future-ready approaches such as smart grid integration, predictive maintenance, and cybersecurity.

Target Audience

- Electrical engineers, systems designers, power plant operators, and technical managers responsible for power distribution, monitoring, and management.

Program Outline

Day 1: Foundations of Power Management Systems

- Introduction to PMS: Purpose, architecture, and industry relevance
- Overview of power systems: Generation, transmission, and distribution

- Power quality challenges and their impact on PMS
- Introduction to load management and power flow analysis

Day 2: PMS Architecture, Components, and Integration

- Core components: Transformers, breakers, relays, sensors
- Communication protocols and device interfacing
- Monitoring and control within PMS: SCADA, PLC, HMI
- PMS design principles and integration into existing infrastructure
- Case studies: Successful PMS implementation examples

Day 3: Automation, Fault Detection, and System Optimization

- Digital control systems and automation techniques in PMS
- Load shedding, peak shaving, and automated demand response
- Real-time system monitoring and diagnostic tools
- Fault detection, protection mechanisms, and redundancy planning
- Hands-on case study: Fault handling and system resilience

Day 4: Energy Efficiency and Advanced PMS Tools

- Techniques for optimizing energy consumption
- Load balancing, power factor correction, and storage integration
- Energy efficiency assessments and modeling scenarios
- Overview of PMS software tools and platforms
- Practical simulation: PMS analysis using advanced software

Day 5: Future Trends and Strategic Power Management

- Smart grid evolution and PMS integration
- Renewable energy, microgrids, and hybrid systems
- Cybersecurity threats and protection strategies in PMS
- Emerging technologies: IoT, AI, and predictive maintenance
- Final review and forward-looking PMS strategies

Registration form on the Training Course: Power Management Systems (PMS)

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

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Payment Method

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