



*Training Course:
Power System Distribution Management*

*14 - 18 February 2027
Cairo (Egypt)*

Training Course: Power System Distribution Management

Training Course code: EN234882 From: 14 - 18 February 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Effective management of power distribution systems is essential to ensure reliable electricity delivery, optimize network performance, and meet growing demand. Modern distribution networks require advanced operational strategies, asset management, and integration of new technologies to maintain efficiency and resilience.

This program, designed by Global Horizon Training Center, equips participants with the knowledge and practical skills required to manage, operate, and optimize power distribution systems in line with industry best practices.

Course Objectives

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

- Understand distribution system management principles and frameworks
- Plan and manage distribution network operations effectively
- Optimize asset performance and lifecycle management
- Apply load management and demand-side strategies
- Manage outages and improve system reliability
- Utilize SCADA and distribution management systems DMS
- Implement maintenance and operational best practices
- Ensure compliance with regulatory and safety standards

Target Audience

This program is designed for:

- Electrical and Power Engineers
- Distribution and Utility Managers
- Operations and Maintenance Engineers
- SCADA and Control Room Operators
- Asset Management Professionals
- Technical Specialists in power distribution

Outline

Day 1: Distribution System Management Fundamentals

- Overview of power distribution networks
- Roles and responsibilities in distribution management
- Distribution system structures and configurations
- Key performance indicators KPIs
- Regulatory and operational frameworks

Day 2: Network Operation and Control

- Distribution system operation strategies
- Load management and demand response
- Voltage control and reactive power management
- SCADA and Distribution Management Systems DMS
- Real-time monitoring and control

Day 3: Asset Management and Maintenance

- Asset lifecycle management
- Maintenance strategies preventive, predictive
- Reliability-centered maintenance RCM
- Condition monitoring techniques
- Maintenance planning and scheduling

Day 4: Reliability, Outage Management, and Risk Control

- Reliability indices SAIDI, SAIFI
- Outage management systems OMS
- Fault detection, isolation, and restoration FDIR
- Risk assessment and mitigation
- Emergency response planning

Day 5: Optimization, Smart Grids, and Future Trends

- Distribution system optimization techniques
- Smart grids and digital transformation
- Integration of distributed energy resources DER
- Energy efficiency and sustainability
- Case studies and real-world applications

Registration form on the Training Course: Power System Distribution Management

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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

- ☐ Please find enclosed a cheque made payable to Global Horizon
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