MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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ELECTRIC POWER DISTRIBUTION SYSTEM FOR INDUSTRIAL PLANTS

"Design, Operate, and Maintain Industrial Power Distribution Systems for Maximum Efficiency and Safety."

Schedule

Venue (In-house)	Fees
At Your Organization Premises	Ask For The Quotation

Introduction

Industrial plants rely on robust and efficient power distribution systems to ensure uninterrupted operations, safety, and energy efficiency. Proper design, operation, and maintenance of industrial power distribution systems are critical to minimize downtime, optimize energy usage, and protect equipment and personnel.

The Electric Power Distribution System for Industrial Plants course equips engineers, electricians, and maintenance professionals with practical knowledge and skills to design, operate, and maintain industrial power distribution networks. Participants will learn about system components, protection schemes, power quality, and best practices for safe and reliable operation.

Objectives

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

- Understand the fundamentals and components of industrial power distribution systems.
- Design and plan power distribution networks for industrial plants.
- Select and operate transformers, switchgear, protective devices, and bus systems.
- Implement protection schemes for safe and reliable power distribution.
- Analyze power quality and take corrective actions for efficient operation.
- Troubleshoot faults and maintain industrial electrical systems.
- Optimize system performance and ensure compliance with safety standards.
- Apply energy-efficient practices and best industry practices in power distribution.

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Why Attend

This course is essential for engineers, electricians, and maintenance personnel responsible for the design, operation, and maintenance of industrial power systems. Participants will gain practical expertise to ensure safe, efficient, and reliable industrial power distribution while minimizing operational risks and downtime.

Target Audience

This course is suitable for:

- Electrical Engineers and Technicians
- Industrial Plant Electrical Teams
- Maintenance Supervisors and Reliability Engineers
- Energy Managers and Electrical Planners
- Industrial Automation and Control Engineers
- Graduate Students in Electrical or Power Systems Engineering

Individual Benefits

- Gain hands-on experience with industrial power distribution systems.
- Enhance skills in system design, fault detection, and troubleshooting.
- Develop professional expertise in protection schemes and power quality analysis.
- Improve decision-making for energy efficiency and system optimization.
- Increase employability and career advancement opportunities.
- Build confidence in operating and maintaining safe and reliable power systems.

Organizational Benefits

- Ensure reliable and uninterrupted power supply for industrial operations.
- Reduce downtime, maintenance costs, and operational risks.
- Enhance safety and compliance with regulatory standards.
- Build internal expertise in power distribution system management.
- Optimize energy efficiency and operational performance.
- Support long-term sustainability and cost-effective industrial operations.

Instructional Methodology

The training employs a practical, hands-on approach through:

- Interactive lectures and demonstrations of industrial power systems
- Real-world case studies and problem-solving exercises
- Step-by-step exercises on system design, protection, and maintenance
- Group workshops and collaborative troubleshooting sessions
- Assignments focused on power quality, energy efficiency, and operational optimization
- Continuous feedback and Q&A sessions to reinforce learning

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Course Outline

Module 1: Introduction to Industrial Power Distribution Systems

Module 2: Transformers, Switchgear, and Bus Systems in Industrial Plants

Module 3: Protective Devices and Coordination Schemes

Module 4: Power Quality Analysis and Mitigation Techniques

Module 5: System Design and Planning for Industrial Operations

Module 6: Maintenance Practices and Safety Procedures

Module 7: Fault Detection, Troubleshooting, and Corrective Actions

Module 8: Energy Efficiency and Optimization Strategies

Module 9: Regulatory Compliance, Standards, and Best Practices

Module 10: Capstone Project – Design, Operation, and Optimization of an Industrial Power Distribution System

Certification

Upon successful completion, participants will receive a Certificate in Electric Power Distribution System for Industrial Plants, validating their expertise in designing, operating, and maintaining reliable and efficient industrial power distribution networks.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

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