MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

SWITCHGEAR INSPECTION, MAINTENANCE & TECHNOLOGY WORKSHOP

"Ensure Safe, Reliable, and Efficient Operation of Electrical Switchgear Systems"

Schedule

Date	Venue	Fees (Face-to-Face)
30 – 31 Jul 2026	Dubai, UAE	USD 1995 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Switchgear plays a critical role in the safe and efficient distribution of electrical power in industrial and commercial installations. Proper inspection and maintenance of switchgear systems help prevent costly failures, unplanned outages, and safety incidents.

This practical workshop-style course provides electrical professionals with essential knowledge and techniques for switchgear operation, diagnostics, testing, and upkeep. It emphasizes real-world maintenance strategies, safety procedures, failure analysis, and recent technology upgrades.

Objectives

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

- Understand the function and classification of low, medium, and high-voltage switchgear
- Perform routine inspection and preventive maintenance procedures
- Apply electrical testing and diagnostic techniques to assess switchgear condition
- Identify common failure modes and implement effective repair strategies
- Enhance switchgear safety, reliability, and lifecycle performance
- Stay up to date with the latest switchgear technology and trends

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Why Attend

- Strengthen reliability and reduce downtime of electrical systems
- Learn essential inspection and maintenance protocols for switchgear
- Minimize operational risk and improve workplace electrical safety
- Improve troubleshooting skills through real-world case studies
- Keep up with evolving technologies and testing techniques

Target Audience

This program is designed for:

- Electrical engineers and technicians
- Maintenance supervisors and plant electricians
- Facility and utility operations personnel
- Safety officers overseeing electrical equipment
- Engineers involved in commissioning and testing switchgear

Individual Benefits

Key competencies that will be developed include:

- Proficiency in identifying and resolving switchgear issues
- Confidence in performing inspections and maintenance tasks
- Knowledge of safety procedures and regulatory compliance
- Ability to interpret test results and equipment specifications
- Awareness of modern switchgear features and upgrades

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved electrical safety and system availability
- Reduced risk of switchgear failures and associated costs
- More efficient and proactive maintenance programs
- Increased workforce capability in electrical asset management
- Enhanced compliance with industry and safety standards

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Switchgear function, classifications, safety
- Case Studies – Incident investigations and maintenance outcomes
- Workshops – Fault simulation, inspection checklists, hands-on diagnostics
- Peer Exchange – Group discussions on equipment issues and solutions
- Tools – Maintenance log templates, IR thermography, insulation testers

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Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Fundamentals and Preventive Maintenance of Switchgear

- Module 1: Overview of Switchgear Types and Configurations (07:30 – 09:30) • Air, SF6, vacuum, and gas-insulated switchgear • MV and HV applications
- Module 2: Switchgear Safety, Isolation, and Lockout Procedures (09:45 – 11:15) • Arc flash hazards, PPE, grounding practices
- Module 3: Inspection Protocols and Maintenance Planning (11:30 – 01:00) • Visual checks, mechanical alignment, cleaning
- Module 4: Workshop – Develop a Maintenance Schedule (02:00 – 03:30) • Create a PM checklist for typical MV switchgear

Day 2: Diagnostics, Testing, and Technology Updates

- Module 5: Electrical Testing Methods and Interpretation (07:30 – 09:30) • Insulation resistance, contact resistance, circuit breaker timing
- Module 6: Failure Analysis and Root Cause Techniques (09:45 – 11:15) • Case studies of switchgear failures and mitigation
- Module 7: New Technologies and Digital Monitoring (11:30 – 01:00) • Remote diagnostics, IoT integration, condition-based maintenance
- Module 8: Workshop – Analyze Test Reports and Recommend Action (02:00 – 03:30) • Review real test data and maintenance outcomes

Certification

Participants will receive a Certificate of Completion in Switchgear Inspection, Maintenance & Technology, validating their ability to ensure the operational safety and performance of switchgear through structured inspection, maintenance, and diagnostic practices.

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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