MAWA EVENTS

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

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

HV/MV CIRCUIT BREAKER/SWITCHGEAR MAINTENANCE, SAFE OPERATION WORKSHOP

""Ensuring Operational Reliability and Safety of High & Medium Voltage Equipment""

Schedule

Date	Venue	Fees (Face-to-Face)
27 – 28 May 2025	Dubai, UAE	USD 1995 per delegate

Introduction

High and medium voltage (HV/MV) circuit breakers and switchgear play a critical role in power system protection, control, and safety. Regular inspection, proper maintenance, and safe operation practices are essential to prevent equipment failure, unplanned outages, and hazardous incidents.

This intensive 2-day workshop equips participants with the knowledge and skills required to safely operate, inspect, maintain, and troubleshoot HV/MV circuit breakers and switchgear systems. Through interactive sessions, case studies, and guided exercises, participants will enhance their understanding of equipment operation, failure modes, and safety procedures.

Objectives

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

- Understand the design, function, and classifications of HV/MV circuit breakers and switchgear
- Conduct routine inspection and maintenance procedures to ensure equipment reliability
- Apply industry best practices for safety during operation and fault handling
- Diagnose common faults and performance issues in HV/MV systems
- Interpret test results and identify the need for corrective maintenance

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Why Attend

- Strengthen your practical knowledge of high-voltage equipment handling and servicing
- Reduce the risk of arc flash and operational hazards through proper safety procedures
- Minimize downtime through proactive inspection and fault prevention
- Learn the standards and regulations governing HV/MV switchgear operation
- Gain confidence in performing or supervising maintenance activities

Target Audience

This program is designed for:

- Electrical maintenance engineers and technicians
- Power system operators and utility staff
- Plant and facility maintenance supervisors
- Safety and compliance officers in energy infrastructure
- Anyone responsible for managing HV/MV systems or substation equipment

Individual Benefits

Key competencies that will be developed include:

- Operation and functional testing of circuit breakers and switchgear
- Execution of safe maintenance procedures
- Troubleshooting common electrical faults
- Use of diagnostic tools and testing equipment
- Compliance with electrical safety codes and standards

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced risk of power outages and operational incidents
- Enhanced safety culture in electrical maintenance practices
- Prolonged equipment lifespan and reduced repair costs
- Improved maintenance planning and fault analysis
- Compliance with safety and operational standards (e.g., IEC, IEEE)

Instructional Methodology

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

- Strategy Briefings – HV/MV design, functionality, and failure prevention
- Case Studies – Real-world incidents and maintenance issues
- Workshops – Simulated inspection and testing routines
- Peer Exchange – Discussion on utility practices and industrial challenges
- Tools – Maintenance checklists, safety protocols, and test data templates

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Course Outline

Training Hours: 07:30 AM – 03:30 PM Daily Format: 3 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Break: 01:00 – 02:00

Day 1: HV/MV Equipment Design and Operation

- Module 1: Fundamentals of HV/MV Switchgear and Circuit Breakers (07:30 – 09:30) • Types, configurations, and applications
- Module 2: Operating Principles and Safe Procedures (09:45 – 11:15) • Opening/closing operations, interlocks, and isolation
- Module 3: Workshop – Safe Switching Procedures Simulation (11:30 – 01:00) • Risk assessment and fault scenario planning

Day 2: Inspection, Testing, and Maintenance Practices

- Module 4: Routine Inspection and Maintenance Protocols (07:30 – 09:30) • Visual checks, lubrication, and mechanical function testing
- Module 5: Testing Methods and Fault Diagnosis (09:45 – 11:15) • Timing tests, insulation resistance, contact resistance
- Module 6: Workshop – Analyze Test Reports and Plan Maintenance (11:30 – 01:00) • Interpreting diagnostics and planning actions

Certification

Participants will receive a Certificate of Completion in HV/MV Circuit Breaker/Switchgear Maintenance & Safe Operation, validating their competency in operating and maintaining high-voltage electrical equipment according to safety and reliability standards.

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**