MAWA EVENTS

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

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GIS MAINTENANCE (ABB) – ELECTRICAL DEPARTMENT

""Optimizing Gas Insulated Switchgear (GIS) Performance with ABB Maintenance Techniques""

Schedule

Date	Venue	Fees (Face-to-Face)
28 – 30 Apr 2026	Dubai, UAE	USD 2495 per delegate

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

Introduction

Gas Insulated Switchgear (GIS) is a critical component in the electrical distribution network, ensuring the reliable and efficient operation of substations. Proper maintenance of GIS is crucial to maximize its lifespan and maintain optimal performance. This 3-day course, focusing on ABB\'s GIS maintenance techniques, will provide participants with the necessary knowledge and hands-on experience to effectively manage and maintain GIS systems.

The course covers the fundamentals of GIS technology, maintenance best practices, troubleshooting techniques, and ABB-specific GIS systems. Participants will also gain practical insights into the latest advancements in GIS technology and how to ensure optimal functioning through regular maintenance.

Objectives

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

- Understand the working principles and components of Gas Insulated Switchgear (GIS).
- Perform effective maintenance and troubleshooting of ABB GIS equipment.
- Identify common faults and issues in GIS systems and apply corrective measures.
- Use ABB-specific tools and techniques to maintain GIS performance.
- Enhance the reliability and longevity of GIS installations through proactive maintenance strategies.

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Why Attend

- Gain specialized knowledge on ABB GIS maintenance and operational best practices.
- Learn how to troubleshoot common GIS faults and reduce downtime.
- Improve operational efficiency and extend the lifespan of GIS equipment.
- Understand the latest ABB-specific tools and technologies for GIS maintenance.
- Enhance your ability to ensure the reliable operation of electrical substations and distribution systems.

Target Audience

This program is designed for:

- Electrical engineers and technicians
- Maintenance managers and supervisors in electrical distribution networks
- Operations and maintenance staff responsible for GIS systems
- Professionals involved in the installation, operation, and maintenance of ABB GIS equipment

Individual Benefits

Key competencies that will be developed include:

- In-depth knowledge of GIS technology and its role in electrical substations.
- Practical skills in maintaining and troubleshooting ABB GIS systems.
- Ability to identify and resolve GIS-related issues to minimize operational interruptions.
- Expertise in applying ABB-specific maintenance tools and techniques.
- Improved troubleshooting capabilities for GIS faults and defects.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced ability to perform GIS maintenance and ensure system reliability.
- Improved fault detection and troubleshooting capabilities, reducing downtime.
- Reduced operational costs through more efficient GIS management.
- Increased expertise in the latest GIS maintenance techniques and ABB tools.
- A more robust and proactive maintenance approach for GIS equipment.

Instructional Methodology

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

- Strategy Briefings – In-depth discussions on GIS maintenance principles, ABB-specific tools, and technologies.
- Case Studies – Real-world examples of GIS faults and maintenance best practices.
- Workshops – Hands-on sessions for troubleshooting and maintaining ABB GIS systems.
- Peer Exchange – Group discussions on common challenges and solutions in GIS maintenance.
- Tools – Practical demonstrations of ABB-specific tools used in GIS maintenance.

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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: Introduction to GIS Technology and ABB Systems

- Module 1: Fundamentals of Gas Insulated Switchgear (GIS) (07:30 – 09:30)
- Overview of GIS technology and its role in electrical distribution networks
- Components of GIS and how they work together to ensure system reliability
- Key advantages of GIS over conventional air-insulated switchgear
- Module 2: ABB GIS Systems Overview (09:45 – 11:15)
- Introduction to ABB GIS systems and technologies
- Key ABB GIS components, specifications, and operational features
- ABB-specific maintenance tools and technologies
- Module 3: GIS Operation and Maintenance Basics (11:30 – 01:00)
- Basic operational procedures for GIS systems
- Routine inspection and preventive maintenance techniques
- Importance of regular GIS maintenance for longevity and reliability

Day 2: Maintenance and Troubleshooting Techniques

- Module 1: Maintenance Best Practices for ABB GIS (07:30 – 09:30)
- Detailed steps for performing maintenance on ABB GIS systems
- Identifying critical maintenance tasks and scheduling them effectively
- Importance of safety protocols during GIS maintenance
- Module 2: Troubleshooting ABB GIS Systems (09:45 – 11:15)
- Common faults in GIS and how to detect them early
- Using diagnostic tools and procedures to troubleshoot GIS problems
- Repairing faults and restoring GIS functionality to normal levels
- Module 3: Fault Detection and Preventive Measures (11:30 – 01:00)
- Methods for fault detection and diagnosis in GIS systems
- Preventive measures to avoid common GIS faults and failures
- Practical case studies on fault detection and troubleshooting in ABB GIS systems

Day 3: Advanced GIS Maintenance and Hands-on Workshops

- Module 1: Advanced GIS Maintenance Techniques (07:30 – 09:30)
- Advanced diagnostic tools for GIS systems
- Addressing complex maintenance issues in ABB GIS systems
- Techniques for ensuring optimal GIS system performance
- Module 2: Hands-on Troubleshooting and Maintenance Workshop (09:45 – 11:15)
- Interactive troubleshooting and maintenance exercises with ABB GIS models
- Identifying faults and performing corrective actions
- Ensuring proper calibration and system checks for ABB GIS
- Module 3: Best Practices for GIS System Longevity (11:30 – 01:00)
- Strategies for extending the lifespan of GIS equipment
- Regular maintenance schedules and predictive maintenance strategies
- Long-term monitoring and data collection for GIS system health

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Certification

Upon completing the training course, participants will receive a Certificate of Completion in GIS Maintenance (ABB) – Electrical Department, validating their expertise in maintaining and troubleshooting ABB Gas Insulated Switchgear systems and improving their operational efficiency.

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.

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