MAWA EVENTS

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

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

SAFE ELECTRICAL ISOLATION

"Ensuring Personnel Safety and Equipment Integrity through Proper Electrical Isolation Practices"

Schedule

Date	Venue	Fees
17 – 18 Aug 2026	Dubai, UAE	USD 1995 per delegate

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

Introduction

Electrical isolation is a critical safety measure in industrial and commercial environments, ensuring protection for personnel and equipment during maintenance, inspection, or repair activities. Improper isolation can result in severe injury, fatalities, and significant operational downtime.

This intensive 2-day course equips electrical and maintenance personnel with the knowledge and skills to carry out safe electrical isolation procedures in accordance with international safety standards. Participants will gain practical experience with lockout/tagout (LOTO) protocols, isolation verification, and hazard identification through workshops, simulations, and real-world case discussions.

Objectives

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

- Understand the legal and safety requirements for electrical isolation
- Identify and assess electrical hazards in various workplace settings
- Apply standard lockout/tagout (LOTO) procedures correctly
- Verify zero energy status before performing work
- Document and audit isolation processes to ensure compliance

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Why Attend

- Protect personnel from electrical shock, arc flash, and related hazards
- Comply with regulatory standards such as OSHA, NFPA 70E, and IEC 60204
- Reduce the risk of accidents during electrical work and equipment servicing
- Strengthen safety culture across maintenance and engineering departments
- Learn from industry professionals through practical demonstrations and scenarios

Target Audience

This program is designed for:

- Electricians, electrical supervisors, and maintenance technicians
- Health, Safety, and Environment (HSE) officers
- Facilities and plant engineers
- Operations and utilities staff working near electrical installations
- Anyone responsible for electrical work or system shutdowns

Individual Benefits

Key competencies that will be developed include:

- Execution of safe electrical isolation using correct tools and procedures
- Identification of energy sources and hazardous conditions
- Knowledge of lockout/tagout equipment and documentation
- Ability to conduct safety checks before and after intervention
- Compliance with electrical safety regulations and audit standards

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved safety practices and reduction in incident rates
- Compliance with legal and insurance requirements
- Minimized risk of unintended energization or equipment damage
- Enhanced workforce readiness for maintenance shutdowns and interventions
- Better reporting and accountability through proper documentation

Instructional Methodology

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

- Strategy Briefings – Electrical safety principles, international standards, and case law
- Case Studies – Analysis of real-world incidents caused by improper isolation
- Workshops – Hands-on exercises in isolation, lockout, and hazard verification
- Peer Exchange – Discussion of safety protocols in different industry contexts
- Tools – Lockout kits, isolation checklists, safety audit templates

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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: Understanding Isolation and Legal Frameworks

- Module 1: Introduction to Electrical Hazards and Risk (07:30 – 09:30) • Electric shock, arc flash, electrocution risks, and statistics
- Module 2: Legal Requirements and International Standards (09:45 – 11:15) • OSHA, NFPA 70E, IEC 60204, ISO 45001 guidelines
- Module 3: Principles of Isolation and Energy Control (11:30 – 01:00) • Types of energy sources, identifying isolation points
- Module 4: Workshop – Isolation Scenario Review (02:00 – 03:30) • Simulated worksite isolation case discussion

Day 2: Practical Isolation Techniques and Verification

- Module 1: Lockout/Tagout Procedures and Equipment (07:30 – 09:30) • LOTO steps, padlocks, tags, group lock boxes
- Module 2: Isolation Verification and Zero-Energy Checks (09:45 – 11:15) • Testing tools, voltage testers, documentation practices
- Module 3: Reporting, Auditing, and Safety Culture (11:30 – 01:00) • Record-keeping, inspections, continuous improvement
- Module 4: Final Workshop – Hands-on Isolation Exercise (02:00 – 03:30) • Practical application of LOTO in a mock setup

Certification

Participants will receive a Certificate of Completion in Safe Electrical Isolation, confirming their competency to perform, verify, and manage electrical isolation activities in compliance with safety and regulatory 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.

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