MAWA EVENTS

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

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ELECTRICAL SAFETY: HAZARDS AND PROTECTIVE MEASURES

"Identify, Prevent, and Protect Against Electrical Hazards to Ensure a Safe and Compliant Workplace"

Schedule

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

Introduction

Electricity is an essential part of industrial and commercial operations, yet it remains one of the most significant workplace hazards. Electrical accidents can lead to severe injuries, equipment damage, or even fatalities if proper precautions are not in place. Understanding electrical hazards and implementing effective protective measures are critical to ensuring safety, reliability, and compliance with regulations.

This course provides participants with a comprehensive understanding of electrical hazards, including shock, arc flash, fire, and explosion risks. It emphasizes safe work practices, personal protective equipment (PPE), grounding and isolation techniques, and compliance with international safety standards such as OSHA, IEC, and NFPA 70E.

Participants will gain the knowledge and confidence to identify risks, implement preventive controls, and establish a safety culture that minimizes electrical incidents in the workplace.

Objectives

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

- Identify various electrical hazards in industrial and commercial environments
- Understand the effects of electric shock, arc flash, and short circuits
- Apply safe working procedures and isolation techniques
- Use appropriate PPE and safety tools for electrical work
- Recognize and comply with relevant safety standards and regulations
- Conduct electrical risk assessments and implement control measures
- Develop emergency response procedures for electrical incidents
- Promote a culture of electrical safety awareness within the organization

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Why Attend

Electrical safety is not just a technical requirement—it's a moral and legal responsibility. This course empowers participants with practical knowledge to prevent electrical accidents, protect personnel and assets, and ensure a safe workplace.

Through real-life case studies, participants will understand the causes of common electrical accidents and learn actionable steps to prevent them effectively.

Target Audience

This course is suitable for:

- Electrical and Maintenance Engineers
- Technicians and Electricians
- Safety and Health Officers
- Plant and Facility Managers
- Supervisors and Team Leaders
- Anyone working with or around electrical systems

Individual Benefits

- Gain awareness of electrical hazards and safe work practices
- Learn to identify unsafe conditions before accidents occur
- Improve competence in electrical isolation and lockout/tagout procedures
- Enhance understanding of PPE requirements and selection
- Build confidence in maintaining electrical safety compliance

Organizational Benefits

- Reduce workplace accidents and equipment damage
- Ensure compliance with national and international safety standards
- Improve productivity through safer operations
- Strengthen safety culture and employee awareness
- Lower maintenance and insurance costs through preventive measures

Instructional Methodology

The course uses an interactive and practical approach that includes:

- Expert-led presentations and visual demonstrations
- Real-world accident case studies and analysis
- Hands-on exercises on safety procedures and PPE use
- Group discussions and risk assessment simulations
- Q&A sessions and feedback tailored to participants' workplaces

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Course Outline

Module 1: Introduction to Electrical Safety and Hazard Awareness

Module 2: Types and Effects of Electrical Hazards (Shock, Arc Flash, Fire)

Module 3: Electrical Risk Assessment and Control Measures

Module 4: Safe Work Practices and Isolation Procedures

Module 5: Personal Protective Equipment (PPE) and Safety Tools

Module 6: Grounding, Bonding, and Circuit Protection

Module 7: Lockout/Tagout (LOTO) Procedures

Module 8: Electrical Codes, Standards, and Legal Compliance (OSHA, NFPA 70E, IEC)

Module 9: Emergency Response and First Aid for Electrical Incidents

Module 10: Developing and Sustaining an Electrical Safety Program

Certification

Upon successful completion, participants will be awarded a Certificate in Electrical Safety: Hazards and Protective Measures, recognizing their competence in identifying risks and applying protective measures to ensure electrical safety and compliance in the workplace.

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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