MAWA EVENTS

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

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

EARTHLING OF UTILITY AND INDUSTRIAL DISTRIBUTION SYSTEM

"Ensure Safety, Reliability, and Compliance Through Effective Earthing Practices in Electrical Systems."

Schedule

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

Introduction

Proper earthing (grounding) is a critical component of electrical safety and system reliability in both utility and industrial distribution networks. It protects personnel, equipment, and infrastructure from electrical faults, surges, and lightning strikes.

The Earthing of Utility and Industrial Distribution System course equips engineers, designers, and maintenance personnel with practical knowledge of earthing principles, design methodologies, and installation practices. Participants will learn to implement effective earthing systems, conduct testing, and ensure compliance with national and international standards.

Objectives

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

- Understand the principles and importance of earthing in electrical systems.
- Design effective earthing systems for utility and industrial distribution networks.
- Select appropriate earthing materials and components.
- Install and maintain earthing systems for substations, switchgear, and industrial plants.
- Perform earth resistance testing and system verification.
- Identify and mitigate common earthing issues and faults.
- Ensure compliance with safety, regulatory, and industry standards.
- Optimize earthing for operational safety, reliability, and protection against surges.

MAWA EVENTS

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

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

Why Attend

This course is essential for electrical engineers, technicians, and maintenance personnel responsible for the design, installation, and maintenance of distribution systems. Participants will gain practical skills to implement safe and reliable earthing systems, protecting equipment, personnel, and operations from electrical hazards.

Target Audience

This course is suitable for:

- Electrical Engineers and Technicians
- Power Distribution and Utility Professionals
- Industrial Plant Engineers and Maintenance Teams
- Safety and Compliance Officers
- Substation and Switchgear Technicians
- Graduate Students in Electrical or Power Systems Engineering

Individual Benefits

- Develop practical expertise in earthing system design and installation.
- Gain confidence in testing and troubleshooting earthing systems.
- Enhance professional knowledge and career advancement opportunities.
- Improve problem-solving and safety awareness in electrical systems.
- Learn to optimize system reliability and protection.
- Acquire knowledge of international earthing standards and best practices.

Organizational Benefits

- Ensure operational safety and protection of personnel and equipment.
- Reduce downtime and damage due to electrical faults and surges.
- Maintain compliance with national and international safety standards.
- Build in-house expertise in earthing and grounding systems.
- Optimize reliability and efficiency of utility and industrial distribution networks.
- Support sustainable and safe electrical system operations.

Instructional Methodology

The training employs a practical, hands-on approach through:

- Interactive lectures and demonstrations of earthing systems
- Real-world case studies of utility and industrial installations
- Step-by-step exercises on earthing design, installation, and testing
- Group workshops and collaborative problem-solving sessions
- Assignments focused on fault analysis and system optimization
- Continuous feedback and Q&A sessions to reinforce learning

MAWA EVENTS

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

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

Course Outline

Module 1: Fundamentals of Earthing – Principles and Importance

Module 2: Types of Earthing Systems for Utility and Industrial Applications

Module 3: Earthing Materials, Components, and Selection Criteria

Module 4: Earthing Design Methodologies and Calculation Techniques

Module 5: Installation Practices and Safety Procedures

Module 6: Testing Earthing Systems – Earth Resistance and Continuity

Module 7: Troubleshooting Common Earthing Issues

Module 8: Lightning Protection and Surge Mitigation

Module 9: Standards, Codes, and Regulatory Compliance

Module 10: Capstone Project – Design, Installation, and Testing of an Earthing System

Certification

Upon successful completion, participants will receive a Certificate in Earthing of Utility and Industrial Distribution System, validating their expertise in designing, implementing, and maintaining safe and reliable earthing systems.

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**

Follow us: **Facebook** **Twitter** **YouTube** **LinkedIn** **Instagram**

© Material published by MAWA Events shown here is copyrighted. All rights reserved. Any unauthorized copying, distribution, use, dissemination, downloading, storing (in any medium), transmission, reproduction or reliance in whole or any part of this course outline is prohibited and will constitute an infringement of copyright.