MAWA EVENTS

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

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

ENVIRONMENTAL DESIGN AND ENERGY MANAGEMENT

"Optimize Energy Efficiency and Sustainability in Electrical Systems"

Schedule

Date	Venue	Fees (Face-to-Face)
23 – 24 Jun 2026	Doha, Qatar	USD 1995 per delegate

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

Introduction

Sustainable energy management and environmentally conscious design are critical in today's electrical and electronic systems. This course equips participants with practical knowledge and strategies for optimizing energy use, reducing environmental impact, and enhancing system efficiency. Attendees will learn how to implement energy management practices that comply with international standards while contributing to organizational sustainability goals.

Through case studies, practical exercises, and interactive sessions, participants will develop the skills needed to design energy-efficient systems, assess environmental impact, and implement effective energy management plans. The course emphasizes actionable strategies to reduce energy costs, enhance sustainability, and meet regulatory compliance requirements.

Objectives

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

- Understand principles of energy-efficient design and environmental management.
- Apply energy management strategies in electrical and electronic systems.
- Conduct energy audits and assess system performance.
- Identify opportunities for reducing energy consumption and environmental impact.
- Comply with international standards for energy efficiency and sustainability.
- Implement continuous improvement strategies for energy and environmental management.

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Why Attend

Participants should attend this course to:

- Gain practical knowledge in energy management and sustainable design.
- Improve efficiency and reduce operational energy costs.
- Learn techniques for conducting energy audits and environmental assessments.
- Ensure compliance with regulatory and international energy standards.
- Implement best practices for sustainable electrical system design.

Target Audience

This program is designed for:

- Electrical and energy engineers
- Facility and operations managers
- Environmental and sustainability professionals
- Project engineers and energy consultants
- Professionals responsible for energy efficiency and environmental compliance

Individual Benefits

Key competencies that will be developed include:

- Energy-efficient electrical system design skills
- Ability to conduct energy audits and identify savings opportunities
- Knowledge of environmental impact assessment techniques
- Compliance with international energy and environmental standards
- Development of energy management and sustainability strategies

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced energy consumption and operational costs
- Improved compliance with sustainability and environmental regulations
- Optimized energy usage across electrical systems and facilities
- Enhanced organizational capability in energy management and environmental responsibility
- Stronger reputation for sustainability and corporate social responsibility

Instructional Methodology

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

- Strategy Briefings – Overview of energy management, sustainability principles, and environmental design
- Case Studies – Real-world examples of energy optimization and sustainable electrical systems
- Workshops – Hands-on exercises for energy audits, system evaluation, and design improvements
- Peer Exchange – Group discussions on challenges, solutions, and best practices in energy management
- Tools – Templates for energy audits, environmental impact assessment, and energy efficiency planning

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Course Outline

Detailed 2-Day 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: Fundamentals of Environmental Design and Energy Efficiency

Module 1: Introduction to Energy Management (07:30 – 09:30)

- Principles of energy management and sustainability
- Importance of environmental design in electrical systems
- Regulatory frameworks and international standards

Module 2: Energy Audit Techniques (09:45 – 11:15)

- Conducting energy audits and system assessments
- Identifying energy consumption patterns
- Measuring performance and efficiency metrics

Module 3: Energy-Efficient System Design (11:30 – 01:00)

- Techniques for optimizing energy usage
- Design strategies for electrical systems and components
- Reducing environmental impact through design

Day 2: Advanced Energy Management and Sustainability Practices

Module 4: Implementation and Monitoring (07:30 – 09:30)

- Developing energy management plans
- Monitoring, measurement, and reporting of energy usage
- Continuous improvement strategies for energy efficiency

Module 5: Case Studies and Best Practices (09:45 – 11:15)

- Review of successful energy management and sustainable design projects
- Lessons learned and common challenges
- Tools and templates for practical implementation

Module 6: Action Planning and Wrap-Up (11:30 – 01:00)

- Developing an actionable energy management plan
- Integrating sustainability into organizational practices
- Recommendations for ongoing improvement and compliance

Certification

Participants will receive a Certificate of Completion in Environmental Design and Energy Management, validating their expertise in energy-efficient design, sustainability, and effective energy management practices for electrical and electronic 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.

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