MAWA EVENTS

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

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

ENERGY CONSERVATION AND DEMAND SIDE LOAD MANAGEMENTS

"Optimizing Allowable Energy Consumption Through Efficiency and Strategic Load Control"

Schedule

Date	Venue	Fees (Face-to-Face)
30 – 31 Aug 2026	Doha – Qatar	USD 1995 per delegate

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

Introduction

Energy conservation and demand side load management (DSLM) are essential strategies for reducing energy costs, enhancing system reliability, and supporting sustainability goals. With rising energy demand and increasing pressure on power infrastructure, organizations must adopt efficient energy management practices to optimize consumption without compromising operational performance.

This intensive 2-day training provides participants with practical insights into energy efficiency measures, load management techniques, and demand-side strategies. The course focuses on real-world applications in industrial, commercial, and utility environments, enabling professionals to reduce energy waste, manage peak demand, and improve overall energy performance.

Objectives

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

- Understand principles of energy conservation and demand side management
- Identify major energy consumers and inefficiencies in electrical systems
- Apply load management techniques to reduce peak demand
- Implement energy efficiency measures in industrial and commercial facilities
- Analyze energy usage data and performance indicators
- Support energy conservation policies and sustainability initiatives

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Why Attend

- Reduce energy consumption and operating costs
- Improve electrical system efficiency and reliability
- Learn practical demand side load management strategies
- Enhance sustainability and environmental performance
- Gain skills applicable across multiple industries
- Strengthen professional competence in energy management

Target Audience

This program is designed for:

- Electrical and energy engineers
- Facility and utility managers
- Energy auditors and efficiency professionals
- Maintenance and operations engineers
- Sustainability and environmental officers
- Industrial and commercial energy users

Individual Benefits

Key competencies that will be developed include:

- Knowledge of energy conservation techniques
- Ability to analyze and optimize electrical energy usage
- Skills in demand side load management planning
- Improved decision-making for energy efficiency investments
- Enhanced awareness of sustainability practices
- Professional growth in energy and power management

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced energy costs and peak demand charges
- Improved power system stability and efficiency
- Enhanced compliance with energy policies and regulations
- Lower carbon footprint and environmental impact
- Increased operational efficiency and cost savings
- Stronger organizational energy management culture

Instructional Methodology

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

- Strategy Briefings – Energy conservation concepts, DSM frameworks, and efficiency standards
- Case Studies – Real-world examples of successful load management and energy savings
- Workshops – Practical exercises on load analysis and efficiency improvement
- Peer Exchange – Group discussions on energy challenges and best practices
- Tools – Energy audit templates, load profiling charts, and efficiency checklists

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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: Energy Conservation Fundamentals

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

- Importance of energy conservation
- Energy use patterns and trends

Module 2: Electrical Energy Efficiency Measures (09:45 – 11:15)

- Efficient motors, lighting, and power factor improvement
- Energy-efficient equipment selection

Module 3: Energy Auditing and Performance Indicators (11:30 – 01:00)

- Energy audit methodologies
- Key performance metrics

Module 4: Workshop – Energy Efficiency Opportunities (02:00 – 03:30)

- Identifying and prioritizing conservation measures

Day 2: Demand Side Load Management Strategies

Module 1: Principles of Demand Side Load Management (07:30 – 09:30)

- Load curves and peak demand
- DSM and DSLM concepts

Module 2: Load Control and Demand Response (09:45 – 11:15)

- Peak shaving and load shifting techniques
- Demand response programs

Module 3: Integration of Renewable Energy and Smart Systems (11:30 – 01:00)

- Role of renewables in DSM
- Smart meters and automation

Module 4: Case Study & Action Planning (02:00 – 03:30)

- Real-world DSM case analysis
- Developing an energy management action plan

Certification

Participants will receive a Certificate of Completion in Energy Conservation and Demand Side Load Management, validating their knowledge and practical understanding of energy efficiency strategies, load management techniques, and sustainable energy practices.

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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In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**