

# ENERGY MANAGER TRAINING PROGRAM UNDER THE ASEAN ENERGY MANAGEMENT SCHEME

## BACKGROUND

The supply of sustainable energy is becoming the global challenge to not only the policy makers but also to enterprises, particularly in the light of continuous increasing energy cost. In fact, the Vietnamese Law on Energy Efficiency and Conservation, the ISO 50001 energy management system recently published prove that energy efficiency and conservation issue is a big concern to both the policy makers and enterprises.

As a business it is therefore important that you ask if your company deals with the following problems:

High energy cost?

Waste in resources consumption in the operation and maintenance of equipment?

Having demand to implement the international management standard like ISO 50001, or Total Productive Management (TPM)?

Being listed in the Designated Energy Using Units according to Article 32, Chapter 8, Law on Energy Efficiency and Conservation?

If the answer is **YES** to just one or more of the questions above, it is the time for your business to get an energy manager, to be in charge of improving and managing the energy usage in the company.

Training personnel in energy management may initially be considered an economic burden but will in the future be an investment solution to bring about long-term financial benefits for the business through important savings in energy cost.



As importantly training certified energy manager will also help businesses to establish the energy management system, meet the Law on Energy Efficiency, and help them to comply with the international standard ISO 50001 energy management systems.

## OBJECTIVES

Energy Manager Training Course aims to introduce to businesses a sustainable energy management system and build the capacity of your energy manager in implementing a sustainable energy management system.

The objective of the course is to equip energy managers with the knowledge and skills to establish and implement a sustainable energy management system for businesses, to not only increase energy efficiency but also to significantly reduce energy cost.

The course is provided under the framework of ASEAN Energy Management Scheme (AEMAS), which has been endorsed by the ten ASEAN Ministries of Energy. Successful participants will become an AEMAS Certified Energy Manager, which is recognized in the ten ASEAN member countries.

## WHO SHOULD ATTEND

### The course is designed for:

- Future Energy Managers
- Facility/ Maintenance Managers or Engineers
- Member of corporate management team (HR manager, managing director, CFO, Chief Procurement Officer, factory manager, utilities manager, ...)
- Chief engineers

## COURSE OUTCOMES

### ❖ For the energy manager trainees:

- Understand the context of energy use in Vietnam and the world as well as Vietnamese laws and regulations, which help businesses proactively prepare for the energy management and to comply with the law.
- Ability to establish and implement a sustainable energy management system in the enterprise, in compliance with the ISO 50001 standard, and in preparation for Energy Management Gold Standard certification.
- Improve professional standing with a certificate validated in 10 ASEAN countries.
- Provide employment opportunities through a network of ASEAN Energy Management Scheme in ten ASEAN countries.

### ❖ For businesses:

- Establish energy management system to use energy in a systematic manner.
- Save energy costs, become economically competitive.
- Minimize energy losses, save money.
- Develop a plan and target of energy efficiency, meet to requirement of the Law.
- Ease the application of other quality systems like ISO 50001, TPM.
- Achieve Energy Management Gold Standard certification
- Improve the businesses image as a sustainable and efficient business.
- Increase the competitive position regionally and internationally, with a certification recognized in 10 ASEAN countries.

## THE COURSE ADVANTAGES

- **Interactive way of learning** - between trainees and trainers and among trainees. The course will involve group discussions, case studies and games to create dialogue and assist trainees to acquire knowledge more effectively.
- **Professional Team of AEMAS** - certified trainers, who have deep experience in the field of energy consulting and energy audits from universities and energy efficiency centers in Asia, qualified through the AEMAS training course for local trainers organized by ASEAN Centre for Energy (ACE).
- **Post-training support** - Support to energy managers for consulting and auditing services for businesses to implement sustainable energy management system by experienced consultants from the AEMAS national support network.



# AEMAS

## ENERGY MANAGER TRAINING PROGRAM



### CERTIFICATION

- **For the trainees:** Energy Manager Certification, granted by the ASEAN Center for Energy (ACE) after successful completion of the training course.
- **For the businesses:** Energy Management Gold Standard certification, issued by the ASEAN Center for Energy (ACE), when an enterprise submits an Implementation Plan indicating the energy efficiency improvement, prepared by a certified energy manager.

### REGISTRATION

- ❖ **To participate in the course, please complete the registration form attached or download from the website: [www.rcee.org.vn](http://www.rcee.org.vn)**
- ❖ **Please send the registration form to:**



**RESEARCH CENTRE FOR ENERGY AND ENVIRONMENT (RCEE)**  
Unit 402, 4th Floor, 5 Floor Building, Hacinco Hotel  
110 Thai Think Street, Dong Da District, Hanoi, Vietnam

- ☎ 84-4-3 786 8592
- ☎ 85-4-3 786 8593
- 🌐 [www.rcee.org.vn/aemas](http://www.rcee.org.vn/aemas)
- ✉ [aemasvietnam@rcee.org.vn](mailto:aemasvietnam@rcee.org.vn)



**ASEAN ENERGY MANAGEMENT SCHEME (AEMAS)** is designed help energy end-users (factories and buildings) establish a sustainable energy management system as a mean to reduce their energy cost. AEMAS includes the training and certification of energy managers, as well as the Energy Management Gold Standard certification for companies who improve their energy efficiency. AEMAS is implemented under the coordination of the ASEAN Centre for Energy, and endorsed by the 10 ASEAN governments, in association with UNEP and sponsored by the European Union.

For more information, please visit website:  
[www.aemas.org](http://www.aemas.org)



**ORGANIZATION** Established in January 1999 as an ASEAN inter-governmental body, the ASEAN Centre for Energy (ACE) has played an important role in initiating and facilitating policies and activities in ASEAN related to the energy sector. As the AEMAS Regional Body, ACE ensures coordination and supervision, as well as visibility of AEMAS at international level. At national level, AEMAS National Council is created to manage the certification processes, recruit trainers and auditors, and advertise the scheme and implement the training and promotional activities.

For more information, please visit website:  
[www.aseanenergy.com](http://www.aseanenergy.com)



**COUNTRY COORDINATOR** The Research Centre for Energy and Environment, working on research, consultancy and technology transfer activities for energy and environment since 1998, is accredited by ACE as AEMAS Country Coordinator in Vietnam, implementing training and certification for Energy Managers under the AEMAS.

For more information, please visit website:  
[www.rcee.org.vn/aemas](http://www.rcee.org.vn/aemas)

## CONTENT OF THE COURSE

### Introduction

1.1	Introduction to a Sustainable Energy Management System
1.2	Definition and role of the Energy Manager
1.3	Responsibilities of the Energy Manager
1.4	Recommended Code of Conduct for the Energy Manager
2.1	Effective Evaluation Tools for Energy Management Performance
2.2	Methodology for setting up an Energy Management System
2.2.1	Energy Policies and regulations
2.2.2	Effective Energy Management Committee
2.2.3	Energy Accounting Centres
2.2.4	Energy Efficiency Index
2.2.5	Working Manual and Tools for Energy Management
2.2.6	Energy Management Working Procedures
2.2.7	Investment Appraisal for Energy Efficiency Projects
2.2.8	Human Resources Development for Energy Management
2.2.9	Documentations in Energy Management System
2.3	Setting up an Energy Target and Plan
2.3.1	Organizing Energy Audit and Analysis
2.3.2	How to set Energy Target and Plan (ET&P)
2.3.3	Measurement and Verification
2.4	Integration of the Energy Management System into Business Practice
2.4.1	Monitoring System
2.4.2	Reporting System
2.4.2	Integration of the Energy Management System with other quality or standard systems
3.1	Project Management and Controlling
3.1.1	Project Management and Controlling Techniques
3.2.1	Budget and Resource Management
3.2	Energy Management Performance Review
3.2.1	Performance Review – Strategy and Approaches
3.2.2	Conducting Performance Review