

Energy Management System (ISO 50001:2011) Advanced Lead Auditor Course

NEW

PDUs to be awarded by Professional Engineers Board, Singapore

Free Copy of SS ISO 50001:2011

Date : 19 – 23 September 2011

Time : 9.00 am to 5.00 pm

Venue : Hotel Re!
175A Chin Swee Road
Singapore 169879

In today's society, effective energy management is a crucial issue for the success of any business. An Energy Management System (EnMS) would be the ideal solution – EnMS helps your organisation in the precision management of energy. In conjunction with enhancing your energy efficiency, an EnMS can cut costs and reduce Greenhouse Gas (GHG) emissions providing you with a competitive advantage of your assurance to the market that you effectively manage energy and demonstrates commitment to your customers.

Why is EN16001 gaining traction in Singapore? The Inter-Ministerial Committee on Sustainable Development (IMCSD) was set up in 2009 to develop a national framework and key strategies for Singapore's sustainable development. The blueprint report highlighted several goals for energy efficiency, one of which is:

Reduce Singapore's energy intensity (per dollar GDP) by 20% from 2005 levels by 2020, and by 35% from 2005 levels by 2030.

ISO 50001 which will replace EN16001:2009 Energy management systems. EN 16001:2009 (E) is currently the European standard for Energy management and 3rd party systems certification.

ISO 50001:2011 specifies requirements for establishing, implementing, maintaining and improving an energy management system, whose purpose is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance, including energy efficiency, energy use and consumption.

ISO 50001:2011 specifies requirements applicable to energy use and consumption, including measurement, documentation and reporting, design and procurement practices for equipment, systems, processes and personnel that contribute to energy performance.

ISO 50001:2011 applies to all variables affecting energy performance that can be monitored and influenced by the organization. ISO 50001:2011 does not prescribe specific performance criteria with respect to energy.

ISO 50001:2011 has been designed to be used independently, but it can be aligned or integrated with other management systems.

ISO 50001:2011 is applicable to any organization wishing to ensure that it conforms to its stated energy policy and wishing to demonstrate this to others, such conformity being confirmed either by means of self-evaluation and self-declaration of conformity, or by certification of the energy management system by an external organization.

ISO 50001:2011 also provides, in Annex A, informative guidance on its use.

Objectives

At the end of the course you should be able to:

- Understand the role of energy and the importance of controlling energy usage
- Plan and conduct an audit for ISO 50001:2011, analyse and report the audit
- Learn and undertake audit follow-up activities including evaluating the effectiveness of corrective action.

Target Audience

This workshop is intended for anyone within an organisation interested and responsible for energy management practices and implementing energy efficiency into existing industrial management systems for continuous improvement for sustainability. Enhance your competitiveness by opening up to new business opportunities, when you are able to meet supply chain needs and customer's contractual requirements with a DNV certified Energy Management System.

Programme Outline

Introduction to Energy Management System (EnMS)

- Energy efficiency and the Environment
- How an Energy Management System supports business
- The purpose of EN 16001 & ISO 50001
- Benefits of an EnMS
- Energy policy

Planning

- Identifying and evaluating energy aspects
- Calculating the baseline
- Energy performance indicators
- Legal obligations and other requirements
- Plan objectives, targets and energy management programme

Implementation & Operation

- Resources, roles, responsibilities, and authority
- Awareness, training
- Communication

Checking & Review

- EnMS monitoring and metering plan
- Calculating equipment performance
- Non-conformity, corrective & preventive action
- Control of documents & Internal audit
- Management Review

Audits

- Accreditation and Certification
- Audit Responsibilities and Auditor Competence
- The Audit planning process, Document Reviews
- The audit plan
- Conducting the Audit
- Audit reporting and follow-up

Comparison between EN 16001 & 15001 standards

- Correspondence between EN 16001 & ISO 50001 standards

2 hours Examination

Organised by:



Supported by:



Sustainable Energy Association of Singapore (SEAS)

2 Bukit Merah Central #18-02 SPRING Building Singapore 159835 Tel: (65) 63388578 Fax: (65) 62764257 www.seas.org.sg

About SEAS

Sustainable Energy Association of Singapore (SEAS) an industry association launched in 2006, today has 160 members in the area of Energy Efficiency, Solar, Wind, Biomass, Carbon and Clean Energy Financing. SEAS aims to be the voice of sustainable energy industry and promote the business of its member companies.

Today, SEAS is also specializing in running trainings, courses and conferences only in the area of sustainable energy. SEAS aims to be the one stop, information and training provider, in the area of sustainable energy. Our trainers and lectures are not only highly qualified academic professionals but also industry specialists and professionals that are successful and sought after practitioners in the area of Sustainable Energy. Majority of Key Qualified Personnel(KQP) and Accredited Energy Services Companies are members of SEAS. They have, as a group successfully executed a multitude of energy projects with varying complexities both locally and regionally.

About the Trainer

Mr. Lim Jit Ting is a Country Manager of DNV Business Assurance S.E.A which is a world-leading certification body that helps customers manage risks and create opportunities within business excellence, Corporate Responsibility, energy and efficiency, product responsibility, and health and safety. He has more than 30 years' working experience which includes being in a Senior Management position as well as Lead Auditor and Trainer for quality, environment, safety & health courses. He is also involved in Quality System Certification and Fabrication Inspection of offshore installations, ship-repairing and as a Welding Specialist resource for Oil and Gas development projects.

Mr. Nandakumar Shamanna graduated from Bangalore University with Bachelor of Engineering, majoring in Mechanical Engineering. He is a ZONAL CHAIR - South at DNV AS India. He is a LEAD AUDITOR and Tutor for Energy Management System, Tutor for Environment Management System, Occupational Health and Safety Management System. He involved in course development for the 'Training Course' on Energy Management System as per EN 16001:2009 & ISO 50001 (Working Draft). He was an Environment Management Representative at Deutsche Babcock, carrying out energy inspections / audits, implement TPM and efficiency improvements for equipment.

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Registration Form

- Yes! I would like to register for this programme.
 I am unable to attend but please put me on your mailing list.

	Early Bird (Registration with payment made on/before 26 July 2011)	Normal Fee (Closing date: 05 September 2011)	Group Fee (Closing date: 05 September 2011)	No. of Delegates	Fee Payable
<input type="checkbox"/> SEAS Member	S\$2300	S\$2600	-		
<input type="checkbox"/> Non Member	S\$2600	S\$2800	S\$2300		
			Total		

- * Fees include refreshments, lunch and programme collateral.
- * Enjoy group discount for 4 or more delegates registered at the same time from the same organization and same billing source.
- * Only one type of discount scheme is applicable at any one time.
- * Please print and complete additional sheets where necessary.
- * Important: Walk-in delegates will only be admitted on the basis of space availability and with full payment made on site.

Participant's Details

1 Name (*Dr/Mr/Mrs/Ms): Designation:
 HP No: Email: PEB

2 Name (*Dr/Mr/Mrs/Ms): Designation:
 HP No: Email: PEB

3 Name (*Dr/Mr/Mrs/Ms): Designation:
 HP No: Email: PEB

*Please delete accordingly

Organization's Details

Company Name:
 Company Address:
 Postal:
 Contact Person's Name : (*Dr/Mr/Mrs/Ms)
 Tel: Fax:
 Email:

Administrative Information

Registration and Payment

Please complete the enclosed registration form and forward it together with your **cheque at least 7 days** before the commencement of the programme to

**Sustainable Energy
 Association of Singapore
 2 Bukit Merah Central
 #18-02, Spring Building Singapore
 Singapore 159835**

Crossed cheque should be made payable to
**"Sustainable Energy
 Association of Singapore"**

Application will close on **05 September 2011**.

Cancellation

SEAS reserves the right to change programme venue, cancel or reschedule the programme if necessary or warranted by circumstances beyond our control.

There will be no refund of fees for withdrawal. However, if the registration participant is unable to attend, a representative may be allowed to attend at no extra cost. Please inform us of the changes by fax or via email 3 days before the commencement of the programme.

Confirmation of Registration

Confirmation of registration will be given 5 working days before the commencement date via email. Registration is confirmed only upon receipt of payment.

If you do not hear from us
Please contact Ms Queenie Heng at:
Tel: 63388578
Email: training@seas.org.sg
Fax your registration form to 62764257