

# IRCA Certified ISO 50001 Energy Management System (EnMS) Lead Auditor Training Course

*PDU's to be awarded by Professional Engineers Board, Singapore  
Get 60% Cash Payout From PIC Scheme*

**Date** : 31 Oct, 1, 2, 3, 4 Nov 2016

**Time** : 9:00am – 5:00pm

**Venue** : SEAS Training Centre  
9 Penang Road, #08-02 Park Mall  
Singapore 238459

**ISO 50001 Lead Auditor Training is designed to give you the relevant skills and knowledge to carry out audits of Energy Management Systems (EnMS). This five-day course provides an opportunity for both Environmental and Energy management professionals to update their skills in interactive and supportive surroundings.**

On course completion you will be able to:

- Explain the purpose of ISO 50001 and the benefits to an organization of using the Standard
- Outline key concepts and approaches to an energy management system
- Describe, with reference to Plan – Do – Check – Act cycle, the structure, scope and purpose of ISO 50001
- Outline key ISO 50001 definitions and terminology
- Briefly summarise relevant energy management legislation
- Identify sources of law and sources of information on energy management legislation
- Describe the principles, processes and techniques used for the assessment of risk and the significance of these in all energy management systems
- Outline and interpret the requirements of the ISO 50001 management systems specification in the context of an audit
- Effectively plan and conduct an audit of the management and operation of an organization in accordance with the requirements of relevant EnMS audit criteria
- Report the audit, including writing valid, factual and value-adding nonconformity reports
- Undertake audit follow-up activities, including evaluating the effectiveness of corrective and preventive action

This course comprises lecture and workshop exercises. Participants are expected to possess a basic knowledge of energy management systems or ISO 50001 before attending the course. This course is accredited by Internal Registry of Certified Auditors (IRCA).

## Objectives

The objective of this Course is to equip participants with knowledge and skills required to perform first-, second-, and third-party audits of EnMS against ISO 50001 in accordance with ISO 19011 and ISO 17021, as applicable.

Upon completion of this Course, delegates will be able to:

- describe the purpose of an EnMS, of ENMS standards, of management system audit and of third-party certification;
- explain the role of an auditor to plan, conduct, report and follow-up an EnMS audit in accordance with ISO 19011 and ISO 17021, where appropriate;
- plan, conduct, report and follow-up an audit of an EnMS in accordance with ISO 19011 and ISO 17021, where appropriate.

## 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 SGS certified Energy Management System.

## Programme Outline

The course focuses on implementing the requirements of the ISO 50001:2011 standard to help your organization to develop & implement policy, identify significant energy & improve energy performance and also prepare & maintain required documentation.

The course programme includes the following main topics:

- Introduction to Energy Management
- ISO 50001: Overview
- ISO 50001 Requirements
- Process-based Energy Managements
- Energy Management Legislation
- Accreditation, Certification and Auditor Competence
- Audits: definition, principles, types
- The Audit Process
- Stage 1 Audit
- Developing the checklist
- Stage 2 Audit: Conducting the on-site audit
- Stage 2 Audit: Review of Findings
- Stage 2 Audit: Report and conclusion & Addressing corrective actions
- Examination Review
- Course review and summary
- Written Examination

Organized by:



Supported by:



Sustainable Energy Association of Singapore (SEAS)

9 Penang Road, #08-02 Park Mall Singapore 238459 Tel: +65 6337 9886 Fax: +65 6337 6658 www.seas.org.sg

## About SEAS

The 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.

SEAS also specialises in training, courses and conferences focussed on sustainable energy. SEAS aims to be the one-stop information and training provider in the area of sustainable energy. Our trainers and lecturers 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. The 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. Eric Gwo-Tai Huang** is the Global Project Manager, Energy/Sustainability in SGS Group. He has been responsible for facilitating SGS's response to the introduction of both ISO 50001:2011 and BS EN 16001:2009 to the energy management market. Mr. Huang has 24 years environmental engineering and management experiences in audit, consulting, engineering and operation, and specialising in energy and climate change. Mr. Huang has conducted numerous of energy management system audit, energy & climate change consulting/audit, waste management, waste treatment/recycling, site remediation, site decontamination, vibration measurement, industrial service, and river basins pollution management projects.

In accordance with SGS procedure and International Register of Certificated Auditors (IRCA) requirements, Mr. Huang was part of the design team for the Energy Management Auditor/Lead Auditor Course. He also is a tutor of IRCA ISO 50001:2011 Energy Management Systems (EnMS) Lead Auditor Training Course (IRCA Certified Course No: A17574). Besides delivering numerous runs of IRCA ISO 50001 Lead Auditor Training Course in Taiwan, he also delivered the same in UK, Hong Kong, USA and Russia. His trainings also include ISO 50001 Implementation and EnMS Lead Auditor Conversion with his footprint covering Vietnam, Egypt, China, Germany, Turkey, Singapore, India, Chile and Japan.

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Date: 31 Oct– 4 Nov 2016, Time: 9:00 am – 5:00 pm, Venue: SEAS Training Centre

### 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 30 Sept 2016)	Normal Fee	Group Fee	No. of Delegates	Fee Payable
<input type="checkbox"/> SEAS Member	S\$2,300	S\$2,600	-		
<input type="checkbox"/> Non Member	S\$2,600	S\$2,800	S\$2,300		

- \* Fees are inclusive of GST.  
\* 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.

### Participant's Details

1. Name (\*Dr/Mr/Mrs/Ms): ..... NRIC: .....  
Designation: ..... HP No: ..... Email: .....
2. Name (\*Dr/Mr/Mrs/Ms): ..... NRIC: .....  
Designation: ..... HP No: ..... Email: .....

### 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**  
9 Penang Road  
#08-02 Park Mall  
Singapore 238459

Crossed cheque should be made payable to

to  
**"Sustainable Energy  
Association of Singapore"**

#### 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 Agnes Seah at:**  
Tel: 6337 9886  
Email: [training@seas.org.sg](mailto:training@seas.org.sg)  
Fax your registration form to 6337 6658

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