



Mastering ISO 50001 Energy Management System: A Practical Roadmap to Energy Efficiency



October 20 - 21 2026 (Tuesday - Wednesday)

8.30am - 5.00pm

FMM Selangor & Kuala Lumpur



Synopsis

In an era of rising energy costs and increasing environmental scrutiny, organizations can no longer afford to manage energy on an ad-hoc basis. **Mastering ISO 50001: A Practical Roadmap to Energy Efficiency** is a comprehensive 2-day intensive focused on the practical application of the ISO 50001:2018 standard. Participants will learn how to establish a robust Energy Management System (EnMS) using the **Plan-Do-Check-Act (PDCA)** cycle, identify Significant Energy Uses (SEUs), establish Energy Baselines (EnBs), and integrate energy management into existing business processes. The course equips organizations with the technical tools and management strategies to achieve sustained energy performance improvement, reduce operational costs, and contribute to global carbon reduction goals.

Learning Outcomes

Upon completion of the program, participants should be able to:

- Interpret the key requirements and structure of the ISO 50001:2018 standard.
- Develop the core components of an EnMS.
- Create an implementation plan for establishing operational control, monitoring, measurement, and analysis processes necessary for maintaining and improving energy performance.
- Prepare for internal audits and management reviews as key mechanisms for ensuring continual improvement and compliance within the EnMS framework.

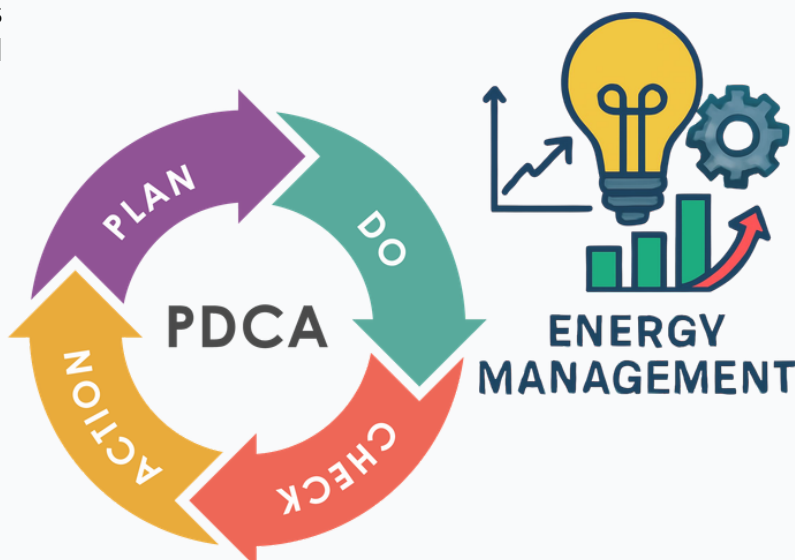
Speaker Profile

Ir. Dr. Chua Kein Huat has been actively engaged in knowledge dissemination through conducting over 230 training sessions and workshops across Malaysia, Singapore, Indonesia, and Papua New Guinea in the past 14 years. Recognised for his expertise, he is an accredited trainer by the HRDC and holds certifications as a Certified Energy Manager (CEM) and Registered Electrical Energy Manager (REEM) conferred by the Energy Commission (Suruhanjaya Tenaga) since 2016.

Who should attend

Facility manager, energy managers, ESG managers, engineers, etc.

CLOSING DATE!!!
October 13, 2026



PROGRAMME OUTLINE

DAY 1

Module 1: Introduction to Energy Management & ISO 50001

- Introduction to Energy Management
- Standards and Regulations of Energy Management
- Overview of ISO 50001:2018: Structure.
- Introduction to the Plan-Do-Check-Act (PDCA) Cycle.
- Overview of 10 core clauses

Module 2: Establishing the Framework & Leadership

- Clause 4: Context of the Organization
 - Understanding internal and external issues.
 - Identifying relevant interested parties (stakeholders).
- Clause 5: Leadership
 - Defining roles, responsibilities, and authority.
 - Developing and communicating the Energy Policy.

Module 3: Planning

- Clause 6: Planning and Objectives & Targets
 - Risks and Opportunities
 - Set SMART energy objectives and targets.
 - Action plans: Resources, responsibilities, and timelines.

Module 4: Energy Review & Baseline

- Clause 6.3: Energy Review
 - Analyze energy use and consumption.
 - Identify Significant Energy Uses (SEUs).
 - Identify improvement opportunities.
 - Estimate future energy use.

DAY 2

Module 5: Energy Performance Indicator (EnPI) and Energy Baseline (EnB)

- Clause 6.4: Energy Performance Indicator (EnPI)
 - Definition of EnPI and EnB.
 - Examples of EnPI
 - Exercises: Establish EnB
 - Develop an energy linear regression model

Module 6: Implementation & Operational Control

- Clause 7: Support
 - Awareness, communication, and documentation requirements.
- Clause 8: Operation
 - Practical Workshop: Defining Operational Controls for SEUs.
 - Integrating energy efficiency into design and procurement.
 - Developing effective procedures and criteria.

Module 7: Monitoring, Measurement, and Analysis

- Clause 9: Performance Evaluation
 - What, how, and when to monitor and measure.
 - Practical Workshop: Analyzing energy performance against the EnB and EnPIs.
 - Introduction to calibration and data management.
- Clause 9.2: Internal Audit
 - Principles of auditing, planning, and conducting an internal audit.
 - Reporting audit findings.
- Clause 9.3: Management Review
 - Preparing inputs and outputs for a management review.
 - Using the review to drive decisions and resource allocation.

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Registration Deadline: October 13, 2026 (Tuesday)

SBL-KHAS Scheme

This programme is claimable under HRD Corp Claimable Course. FMM will claim the course fee directly from the employer's account with HRD Corp. However, approval from HRDC is required prior to commencement of programme by submission via eTris under HRD Corp Claimable Course. The company has to make the FULL PAYMENT to FMM in the event that no disbursement from HRD Corp under any circumstances

Registration Fees

FEE	PER PAX	8% SERVICE TAX	TOTAL
MEMBER	RM 1389	RM 111	RM 1500
NON MEMBER	RM 1574	RM 126	RM 1700

Payment Method

- Cheque payable to:
"FEDERATION OF MALAYSIAN MANUFACTURING"
- E-Payment: Malayan Banking Berhad
A/C No: 5121-0160-3721 (Swift code: MBBEMYKL)

Replacement/Cancellation/No Show

- Replacement is allowed with no additional cost.
- Cancellation must be in writing to FMM Selangor & Kuala Lumpur by October 13, 2026; otherwise there will be no refund.
- Participants who do not attend the seminar are liable for the full fee.

Technical Information

- Grant approval [HRDC] must be forwarded to FMM 3 days before the seminar date
- Confirmation email will be sent to the participants 1 week before the programme. Kindly email to fmmselangor@fmm.org.my if the participant did not receive any email from FMM.
- FMM reserves the right to cancel or reschedule the event. All efforts will be taken to inform participants of changes. FMM is not responsible for any costs incurred by participants in the event of cancellation or rescheduling.

**Training Provider MyCOID: 007907X_SELKL
HRD Corp SBL - Khas Programme No: 10001723596**

REGISTRATION FORM

FMM Selangor & KL (Attention: Ms Ila)

Email : fmmselangor@fmm.org.my

Tel no : 03-55692950

Please tick (/) accordingly

- () Claiming for HRD Corp - SBL KHAS
() Non HRD Corp Contributor

MEAL PREFERENCE

Require vegetarian meal ____ pax

Participant 1	Participant 2
Name: _____	Name: _____
IC No.: _____	IC No.: _____
Designation: _____	Designation: _____
Phone No.: _____	Phone No.: _____
Email: _____	Email: _____

Submitted by:

NAME : _____ DESIGNATION : _____

EMAIL : _____ TEL NO : _____

COMPANY : _____ MEMBERSHIP NO : _____

ADDRESS : _____

COMPANY TIN NO : _____

For any enquiry , please contact FMM Secretariat, Ms Ilakiya at 03-55692950 or fmmselangor@fmm.org.my