



## **ISO 50001 UNDERSTANDING AND IMPLEMENTING TRAINING**



MTBM Group Sdn. Bhd. (1600656-M)

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**Course Title:** ISO 50001 Understanding and Implementing Training

**Course Validity:** 2 Days

**Validity:** Not Applicable

**HRD Corp Scheme:** Claimable

## **INTRODUCTION**

This training provides participants with a comprehensive understanding of ISO 50001, the international standard for Energy Management Systems (EnMS), by focusing on how organisations can manage energy performance more effectively through structured processes and continual improvement. The course explains the principles, requirements and practical application of ISO 50001, emphasising how energy planning, operational control, performance evaluation and lifecycle considerations contribute to reduced operational costs and enhanced sustainability. It also highlights the importance of aligning energy objectives with organisational goals, managing energy-related risks and opportunities and improving energy efficiency across assets, equipment and facilities. Through real-world case studies and hands-on exercises, participants will learn how to establish, implement and maintain an EnMS that supports compliance, optimises energy use and enhances overall organisational resilience.

## **OBJECTIVE(S):**

- Understand the purpose, structure and key requirements of ISO 50001.
- Learn how to develop and implement an effective Energy Management System.
- Apply energy planning, operational control and monitoring techniques.
- Identify energy-related risks, opportunities and performance indicators.
- Understand documentation, records and reporting expectations.
- Strengthen readiness for ISO 50001 certification and continual improvement.

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**TARGET GROUP(S):**

- Energy managers and sustainability officers
- Engineers and maintenance personnel
- Facility and operations managers
- Quality, health, safety and environment personnel
- Internal auditors
- ISO and compliance representatives

**ENTRY REQUIREMENT(S):**

- Able to read, write and communicate verbally in Malay/English

**TOPIC(S):**

1. Introduction to Energy Management and ISO 50001
2. Structure, Terms and Key Concepts of ISO 50001
3. Energy Planning: Risks, Opportunities and Energy Review
4. Energy Objectives, Targets and Action Plans
5. Operational Control and Energy Performance Indicators (EnPIs)
6. Monitoring, Measurement, Analysis and Evaluation
7. Documentation, Records and Implementation Requirements
8. Certification Process and Continual Improvement Strategies

**LIST OF REFERENCE BOOK(S):**

- ISO 50001: Energy Management Systems Requirements
- ISO 50002: Energy Audits
- ISO 50003: Requirements for Certification Bodies
- Energy efficiency and sustainability guidelines

**LIST OF TEACHING AID(S):**

- LCD projector
- Computer
- Whiteboard with accessories
- Flip chart with accessories
- Energy planning templates and tools

**METHODOLOGY(S):**

- Lecture
- Group discussions
- Case studies
- Implementation workshops
- Practical exercises

## TRAINING SCHEDULE

### Day 1

| Time                | Activity / Topic  |
|---------------------|---|
| 8:30 am – 9:00 am   | Registration and Introduction                                       |
| 9:00 am – 10:15 am  | Topic 1: Introduction to Energy Management and ISO 50001            |
| 10:15 am – 10:30 am | <b>Morning Tea Break</b>  |
| 10:30 am – 12:30 pm | Topic 2: Structure, Terms and Key Concepts of ISO 50001             |
| 12:30 pm – 1:30 pm  | <b>Lunch Break</b>  |
| 1:30 pm – 3:30 pm   | Topic 3: Energy Planning for Risks, Opportunities and Energy Review |
| 3:30 pm – 3:45 pm   | <b>Afternoon Tea Break</b>  |
| 3:45 pm – 5:00 pm   | Topic 4: Energy Objectives, Targets and Action Plans                |

## TRAINING SCHEDULE

### Day 2

| Time                | Activity / Topic   |
|---------------------|--|
| 8:30 am – 9:00 am   | Recap of Day 1   |
| 9:00 am – 10:15 am  | Topic 5: Operational Control and Energy Performance Indicators (EnPIs) |
| 10:15 am – 10:30 am | <b>Morning Tea Break</b>   |
| 10:30 am – 12:30 pm | Topic 6: Monitoring, Measurement, Analysis and Evaluation              |
| 12:30 pm – 1:30 pm  | <b>Lunch Break</b>   |
| 1:30 pm – 3:30 pm   | Topic 7: Documentation, Records and Implementation Requirements        |
| 3:30 pm – 3:45 pm   | <b>Afternoon Tea Break</b>   |
| 3:45 pm – 5:00 pm   | Topic 8: Certification Process and Continual Improvement Strategies    |