
Energy Performance Governance and ISO 50001 Implementation Training Course

25 – 29 April 2027
Kuala Lumpur





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Programme Summary

Energy performance governance and ISO 50001 implementation is the subject of this one-week training course for managers who sponsor or run an energy management system, ending in an implementation pack for one site or business unit. Energy cost and emissions drift upwards when nobody owns the data, the targets or the review. The approach moves from the structure of the standard and the energy review, through indicators and baselines, to operational control, audit and management review, then to a worked implementation pack. Mars Training Centre UK delivers this programme in energy performance governance and ISO 50001 implementation.

The Business Case

An energy management system that exists only as a document rarely changes consumption. Leaders who set a clear baseline, assign owners to significant energy uses and review results on a fixed cycle can show where energy performance has moved and why. That evidence supports budget decisions, supplier discussions and external audit.

- **Energy Cost Control:** Improves as significant energy uses are ranked and given owners and action plans.
- **Reporting Confidence:** Increases when energy performance indicators are tied to a documented baseline.
- **Audit Readiness:** Strengthens as internal audit and management review produce a traceable evidence file.

Principles and Evidence Base

- **ISO 50001:** The requirements standard for an energy management system shapes the whole programme, with clause structure covered in Session 1 and clause application in Sessions 2 to 4.
- **Plan-Do-Check-Act:** The continual improvement cycle on which the standard is built organises the sequence of governance, review, control and audit.
- **ISO 50002:** The standard for energy audits informs the audit scope and findings work in Session 4.
- **ISO 14001 and ISO 9001:** These management system standards share the high level structure of ISO 50001, which guides the integration work in Session 1.



Intended Participants

- Managers who sponsor an energy management system and allocate its resources.
- Energy team leaders who carry out the energy review and maintain baselines.
- Operations and facilities managers who control the processes that use most energy.
- Quality, environmental and internal audit leads who integrate or assess the system.

The programme suits manufacturing, utilities, oil and gas, commercial property and public service organisations.

Learning Outcomes

1. Participants will be able to construct an energy policy, scope and governance structure that meets the clause structure of ISO 50001.
2. Participants will be able to diagnose significant energy uses from an energy review and rank them by influence on consumption.
3. Participants will be able to design energy performance indicators and an energy baseline that remain valid when conditions change.
4. Participants will be able to prioritise objectives and action plans with owners, resources and measurement arrangements.
5. Participants will be able to evaluate operational control, internal audit and management review evidence against the standard.
6. Participants will be able to justify an implementation pack to a sponsoring executive and an auditing body.

Programme Structure

Day 1: Energy Management System Structure and Governance

What does ISO 50001 expect of top management, and how is the system organised?

- ISO 50001 Clause Structure and Plan-Do-Check-Act Cycle
- Energy Policy and Scope Statement
- Top Management Responsibilities and Energy Team Roles
- Context and Interested Parties Register
- Integration Map with ISO 14001 and ISO 9001

Day 2: Energy Review, Significant Energy Uses and Baselines

How are significant energy uses identified, ranked and measured against a baseline?

- Energy Review Method and Data Sources
- Significant Energy Uses Ranking Matrix
- Relevant Variables and Normalisation
- Energy Baseline Construction
- Energy Performance Opportunity Register



Day 3: Indicators, Objectives and Action Plans

How do indicators and objectives turn the review into managed improvement?

- Energy Performance Indicator Selection Table
- Objective and Target Statements
- Action Plan with Owners and Resources
- Metering and Data Collection Plan
- Savings Measurement Method

Day 4: Operational Control, Audit and Management Review

Which evidence shows that the system is controlled, audited and reviewed?

- Operational Control Criteria and Procurement Rules
- Competence and Awareness Plan
- Internal Audit Programme and ISO 50002 Audit Scope
- Management Review Agenda and Corrective Action Log
- Evidence File for an ISO 50003 Auditing Body

Day 5: Applying ISO 50001 Implementation to One Site

Is the implementation pack ready for an executive sponsor and an auditing body?

- Applying the Session 1 Governance Structure to the Chosen Site
- Testing the Session 2 Baseline Against Metered Data
- Checking Session 3 Indicators Against the Action Plan
- Rehearsing the Session 4 Management Review
- Completing the Implementation Pack

Methodology

The programme is built around structured exercises on an anonymised site dataset. Participants work in small teams to rank energy uses, build a baseline, draft indicators and plan an internal audit, then defend their pack in a simulated management review. Each exercise follows the Plan-Do-Check-Act sequence so that evidence from one session feeds the next.

- Suggested activity: Ranking the energy uses of a plant and a commercial building.
- Suggested activity: Building a baseline and testing it against a change in output.
- Suggested activity: Drafting an audit finding and a corrective action.



Capstone Output

Each participant completes an implementation pack for one site or business unit. It contains an energy policy and scope, a ranked list of significant energy uses, a baseline with indicators, an action plan, an audit programme and a management review agenda. It is used to brief an executive sponsor and to prepare for an external auditing body.

Frequently Asked Questions

Is ISO 50001 implementation suitable for managers without an engineering background?

Yes. ISO 50001 implementation is set at managerial level and assumes responsibility for energy cost, operations or assurance, not detailed engineering design or metering skills.

Which standards does ISO 50001 implementation rest on in this programme?

ISO 50001 implementation rests on ISO 50001 itself, the Plan-Do-Check-Act cycle, ISO 50002 for energy audits, and the shared structure of ISO 14001 and ISO 9001.

How is the pack from ISO 50001 implementation used at work?

You use the pack from ISO 50001 implementation to brief your executive sponsor, assign owners to significant energy uses and prepare evidence for an auditing body.

How does ISO 50001 implementation differ from an energy efficiency course?

ISO 50001 implementation centres on governance, baselines, indicators and audit of the management system, while an energy efficiency course centres on technical measures that cut consumption in equipment and buildings.