Energy Management System (BS EN 16001/ISO 50001 Development and Implementation)

28 March – 1 April 2027
Amman (Jordan)



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Ref: 6041_276286 **Date:** 28 March – 1 April 2027 **Location:** Amman (Jordan) **Fees:** 4200 Euro

Course Overview

Energy and carbon management are now recognized as critical components of successful organizational management. Utilizing energy resources is essential to achieving desired outcomes. Despite persistent pressures to reduce costs and minimize environmental impacts, energy management and control are often overlooked. ISO 50001 energy management can be straightforward once appropriate practices and methodologies are learned and applied within an organization.

ISO 50001 Energy Management System Standard

The ISO 50001 Energy Management System standard is central to the course content, with a focus on its essential elements and the benefits of achieving ISO 50001 certification. An ISO 50001 course like this provides in-depth ISO 50001 training required for understanding and implementing an effective energy management system. Participants will explore what an energy management system is as defined by ISO 50001, including the benefits of implementing a sustainable energy management system that could lead to energy systems maintenance and certification.

Participants who manage to build energy management systems, especially those interested in Siemens building energy management systems or sustainable solutions, will find the life-cycle perspective and maintenance requirements of an automatic energy management system emphasized during the training. This course is also instrumental for organizations looking to build an energy management system from the ground up, ensuring a holistic and compliant approach as per the ISO 50001 energy management systems definition.

Targeted Groups

- Operational Managers.
- Design Managers responsible for new facilities.
- Project Managers.
- Facilities Managers.
- Individuals aiming to enhance the environmental performance of their organization.

Course Objectives

By the end of this BS EN 16001 and ISO 50001 energy management system course, participants will be able to:

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- Comprehend the origins of energy resources.
- Identify and eliminate energy waste.
- Manage the energy effectively once it is on-site.
- Engage all organizational staff in the daily management of energy resources.
- Show all stakeholders customers and suppliers the best practices implemented.

Targeted Competencies

At the end of this BS EN 16001 and ISO 50001 energy management system course, the target competencies will be able to:

- Understanding energy management processes.
- Familiarity with the international energy management standard ISO 50001.
- Capability to reduce operational costs, carbon footprint, and environmental impact.
- Networking with peers focused on mastering this aspect of their organization.
- Learning from experienced international energy management professionals.

Course Content

Unit 1: Energy Overview

- Energy and the environment.
- Laws, regulations, and guidelines pertaining to energy.
- Terminology in energy discourse.
- Carbon emissions and their effects.
- Energy standards, including ISO 50001 and BS EN 16001.
- Applications and best practices of energy in various sectors.

Unit 2: Energy Data and Management

- Understanding energy invoices.
- The role of metering in energy conservation.
- Data manipulation, interpretation, and management.
- Management output.
- Utilizing data for informed management decisions.
- Assessing the competency of energy resource management.

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Unit 3: Energy Auditing / Review

- Processes involved in energy auditing.
- Methods of simple auditing.
- Management energy auditing.
- Conducting detailed energy audits.
- Assessing processes.
- Equipment and activity assessment for energy efficiency.

Unit 4: Monitoring and Targeting

- Working with raw data to uncover insights.
- Correlating energy use with activity levels.
- Setting benchmarks and Key Performance Indicators KPIs.
- Implementing techniques like regression analysis and CuSum.
- Establishing budgets and targets for energy consumption.
- Utilizing automatic monitoring and targeting systems for enhanced reporting.

Unit 5: People Power

- Resources for assistance and guidance in energy management.
- Motivating and enrolling staff in energy-saving initiatives.
- Making energy policies and strategies effective.
- Building partnerships for sustainable energy management.
- Communicating essential information on energy management and conservation.