Energy Management System (BS EN 16001/ISO 50001 Development and Implementation) (7009)

21 – 25 June 2027
Rome (Italy)



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Ref: 7009_1001982 **Date:** 21 – 25 June 2027 **Location:** Rome (Italy) **Fees:** 7200 Euro

Introduction

Energy and carbon management are now essential components of successful organizational management. The utilization of energy resources is a critical factor in achieving our outcomes.

However, often more attention is needed to its management and control. Pressure to reduce organizational costs, minimize resource use, and environmental impact are ever-present challenges.

Managing energy is simple and easy once the essential practices and methodologies suitable for the organization have been learned and applied.

ISO 50001 Energy Management System: Understanding the Standard

In this BS EN 16001 and ISO 50001 energy management system course, participants will delve into the benefits of ISO 50001 certification and understand what an energy management system aligned with ISO 50001 entails. ISO 50001 training will equip attendees with the knowledge to pursue ISO 50001 certification for their organizations, emphasizing the development and implementation process.

This ISO 50001 certification course will explore why the BS EN 16001 energy management systems standard has evolved into ISO 50001, shedding light on the benefits of ISO 50001, including cost reductions and enhanced sustainability practices.

Targeted Groups

- Electrical Engineers.
- Electrical Supervisors.
- Power Engineers.
- Managers in charge of electrical installations.
- Project Engineers.
- Quality Professionals.

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Course Objectives

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

- Understand where energy resources come from.
- Identify areas where energy can be conserved or used more efficiently.
- Gain expertise in effectively managing the energy once it is brought on-site.
- Encourage organizational colleagues to engage in daily energy resource management.
- Demonstrate to all stakeholders the best practices in energy management.
- Understand the process of developing and implementing an energy management system.
- Learn about the International Energy Management Standard ISO 50001.
- Reduce operational costs, carbon footprint, and environmental impact.

Targeted Competencies

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

- Developing policies and strategies specific to energy management.
- Understanding objectives and targets related to resource usage.
- Recording and responding to variations in energy management targets and budgets.
- Establishing effective energy usage monitoring and metering approaches.

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MERCURY

Course Content

Unit 1: Energy Overview

- Energy and the environment.
- Energy laws, regulations, and procedures.
- Understanding energy terminology.
- Carbon emissions and their implications.
- Overview of energy standards such as ISO 50001 and BS EN 16001.
- Energy applications in various sectors.

Unit 2: Energy Data and Management

- Interpreting invoices for energy usage.
- Effective metering strategies.
- Data manipulation and interpretation.
- Management output.
- Utilizing data for energy optimization.
- Evaluation of management competency in energy usage.

Unit 3: Energy Auditing / Review

- The auditing process and its importance in energy management.
- Simple to complex auditing techniques.
- Management auditing for ongoing energy usage.
- Detailed auditing for specific energy management challenges.
- Process assessment for optimal energy utilization.
- Equipment and activity assessment to identify areas for improvement.

Unit 4: Monitoring and Targeting

- Analyzing raw data to understand energy usage patterns.
- Establishing connections with organizational activity levels.
- Creating benchmarks/KPIs for energy performance.
- Regression analysis and CuSum techniques for detailed analysis.
- Establishing consumption budgets and targets.
- Automated monitoring and targeting/reporting for continuous improvement.

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Unit 5: People Power

- Finding sources of help and guidance in energy management.
- Engaging staff members in energy management initiatives.
- Implementing policies and strategies to align with energy goals.
- Establishing partnerships for collaborative energy management.
- Effective information/communication strategies for organizational energy management.