



# ISO 50001 Energy Management System (EMS)

## Introduction

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Effective energy management isn't just good for business, it's also becoming a requirement. And the best way to achieve it is with ISO 50001. The international standard outlines energy management practices that are considered to be the best, globally. Energy management experts from more than 60 countries developed the standard and now we can help you tap into that expertise, every day, to help you save energy, cut costs and meet environmental requirements. This course covers the elements of ISO 50001 energy management system and provides guidance on how to implement the standard. It will enable practitioners to build the necessary systems and processes to improve energy efficiency. This help to reduce consumption and associated costs as well as improving overall energy performance in organization's operations. Interactive activities are provided how to determine the scope and boundaries as well as assessing resources needed. Also other activities, such as roles and responsibilities, how to set energy policies, and evaluating methods. Benefits of implementing ISO 50001. You will be able to:

- Identify and manage the risks surrounding your future energy supply
- Measure and monitor energy use to identify where to improve efficiency
- Improve overall performance to cut energy consumption and bills
- Reduce carbon emissions and meet government reduction targets



## Who Should Attend?

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Managers, Team Leaders, Line Managers, Superintendents, OE Champions, Quality and Project Managers, Supervisors, Executives, Internal and External Auditors, Members of IT Team, Health & Safety Managers, Risk Managers, Business Process Owners, Business Finance Managers, Business Risk Managers, Regulatory Compliance Managers, Project Managers, Continuity, Risk, Quality, IT and Environmental Managers, Anyone involved in the system development, implementation and maintenance, Regulatory Affairs Managers, Consultants,

Anyone who is involved in ISO standards, CEOs, presidents, and vice presidents, Auditors of ISO 9001 and ISO 14001 who want to expand into the field of ISO 50001, Managers of

companies that are considering whether to implement an energy management system, Any employee who have been tapped to become management reps at companies that are implementing ISO 50001, People who want to know more about what ISO 50001 requires

- Demonstrate environmental credentials to increase tender opportunities

## Course Objectives:

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**By the end of this course, delegates will be able to:**

- Understand how to develop a plan to implement an ISO 50001 based energy management system
- Learn how to use provided resources to support the implementation of ISO 50001
- Understand how to develop energy policies and processes
- Comparing methods of controlling energy usage
- Define and develop baseline energy performance indicators
- Be familiar with creating appropriate measures and internal benchmarks for improving energy performance
- Understand the purpose of an energy management system
- Understand the benefits of ISO 50001 best practice energy management
- Gain an overview of the requirements of ISO 50001



- Understand how to reduce your energy costs and performance
- Get the skills to know how to meet environmental targets and legal requirements
- Improve industry and customer recognition
- Build awareness and understanding of efficient energy management

## Course Outline:

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- Normative references
- Terms and definitions
- What is energy management system (EMS)?
- Overview of ISO 50001
- General requirements
- Management responsibility
- Top management
- Management representative
- EMS requirements
- Energy policy
- Energy planning
- Legal and other requirements
- Energy review
- Energy baseline
- Energy performance indicators
- Energy objectives, energy targets and energy management action plans
- Implementation & operations
- Competence, training and awareness
- Communication
- Documentation
- Operational control and design
- Procurement of energy services, products, equipment and energy
- Checking, monitoring and auditing
- Monitoring, measurement and analysis
- Evaluation of legal requirements and other requirements
- Internal audit of the EMS
- Nonconformities, correction, corrective, and preventive action
- Control of records
- Management review
- Input and output to management review