



**Energy, Electrical Engineering**



**SCANDINAVIAN ACADEMY**  
Training and Development

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# Course: ISO 50001 Developing and Implementing an Energy Management

Code	City	hotel	Start	End	price	Hours
366	Zurich (Switzerland)	Hotel Meeting Room	2024-06-17	2024-06-21	5950 €	25

## Introduction

ISO50001 is a recent addition to the portfolio of International Management Standards, as exemplified by ISO9001 (Quality) and ISO14001 (Environment). It has long been appreciated that Energy resources have impacts in terms of Cost and Environmental implications however the methodology by which these can be reduced has not always been clearly understood or applied.

As with any recognised Management system it is vital to carry out a process of developing and implementing the Standard and once functioning effectively maintain it so that it causes Continual Improvement to take place in performance. However the process of Energy Management has often been one of occasional or intermittent activity and this has not maximised the potential saving achievable. This course demonstrates that taking a standardised approach will embed Energy Management into daily activity.

- What is Energy Management?
- The need for Energy Management
- What is an Energy Management System (ISO50001)
- Energy Management System development in your organisation
- Energy Management System implementation in your organisation
- Energy workshops to develop the technical and analytical skills needed

## Objectives



### **To make Energy Management part of any organisation's daily best practice:**

- Develop an understanding of where Energy Management fits into overall business management
- To help delegates to identify opportunities to reduce and minimise Energy usage, cost and Environmental Impact
- To provide a recognised technical and administrative approach and create a global understanding of the relevance of effective Energy Management
- To prove that quantification and appreciation of levels of, and points of energy use can make a significant difference
- To demonstrate the Energy Management is not about working harder but about working smarter!
- To keep organisations competitive

### **Training Methodology**

The training will be presented in both PowerPoint and iMind Map seminar form with the intention of raising and answering issues pertaining to taking control of Energy usage. Each module will be supported by examples, case studies and workshop components to generate interactivity.

### **Organizational Impact**

Any organisation providing delegates will find that participants will gain new skills and understanding not only in the process of Managing Energy effectively but also to the recognised International Standard ISO50001.

- Understanding and Recognising energy reduction opportunities
- Competency in Establishing, Implementing and Maintaining an effective Management System
- The ability to self-certify to ISO50001



- The ability to prepare for external certification
- The opportunity to demonstrate to customers and clients yet another aspect of effective organisational best practice
- International recognition and appreciation of enthusiasm for mitigating Climate Change

## Personal Impact

### To develop in delegates:

- An appreciation of what is Energy Management
- An appreciation of the background of where ISO50001 came from
- An understanding of the main steps that will guarantee an effective EnMS
- An ability to create effective Energy Management programme in your organisation
- Knowing how to identify energy and cost saving opportunities
- An ability to train and develop energy skills in your team

## Who Should Attend?

- Energy Managers
- Energy Consultants
- Business / Organisational Managers
- Business Planners and Advisors



- Technicians
- Energy and /or Environmentally responsible individuals
- Compliance Officers and Manager

## Outline

### Day 1

- Drivers for reducing energy usage + Workshop
- Issues of climate change
- Identifying organisational needs and capabilities
- The opportunities to reduce energy usage + Workshop
- Energy auditing – identifying significance + Workshop
- Monitoring and Targeting
- Regression Analysis
- Cumulative Sum Calculations
- Setting realistic targets for improvement

### Day 2

- Monitoring and targeting – continued + Workshop
- Preparing an internal audit of energy consuming practices + Workshop
- Analysis of collected and available energy data
- Identifying significance
- Prioritising solutions
- Analysis of Energy Data Workshop
- Daily Energy Management
- Energy Projects



### **Day 3**

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- ISO50001 components and clauses
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- Energy Management Gap analysis
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- Initial Seven steps
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- Establishing ISO50001 + Workshop
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- Implementing ISO50001
- 
- Maintaining ISO50001
- 
- Resources
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- Staff development and training

### **Day 5**

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- Internal Auditing of ISO50001
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- ISO19011:2002
- 
- Duties of Internal Auditor
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- Duties of Auditee organisation
- 
- Closing Workshop
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- Final Discussion
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- Revision
- 
- Examination

### **Day 4**

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- Working through all of the steps and stages Workshop
- 
- Steps 1 - 7 Exercises and Solutions
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- Open Discussion



**The Scandinavian Academy employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:**

- **Theoretical Lectures:**
  - We deliver knowledge through advanced presentations such as PowerPoint and visual materials, including videos and short films.
- **Scientific Assessment:**
  - We evaluate trainees skills before and after the course to ensure their progress.
- **Brainstorming and Interaction:**
  - We encourage active participation through brainstorming sessions and applying concepts through role play.
- **Practical Cases:**
  - We provide practical cases that align with the scientific content and the participants specific needs.
- **Examinations:**
  - Tests are conducted at the end of the program to assess knowledge retention.
- **Educational Materials:**
  - We provide both printed and digital scientific and practical materials to participants.
- **Attendance and Final Result Reports:**
  - We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.
- **Professionals and Experts:**
  - The programs scientific content is prepared by the best professors and trainers in various fields.
- **Professional Completion Certificate:**
  - Participants receive a professional completion certificate issued by the Scandinavian Academy for Training and Development in the Kingdom of Sweden, with the option for international authentication.
- **Program Timings:**
  - Training programs are held from 10:00 AM to 2:00 PM and include buffet sessions for light meals during lectures.