



PECB CERTIFIED ISO 50001 LEAD IMPLEMENTER

MASTERING THE IMPLEMENTATION AND MANAGEMENT OF AN ENERGY MANAGEMENT SYSTEM (EnMS) BASED ON ISO 50001

SUMMARY

This five-day intensive course enables the participants to develop the necessary expertise to support an organization in implementing and managing Energy Management System (EnMS) based on ISO 50001. Participants will also gain a thorough understanding of best practices used to implement energy performance based on requirements from ISO 50001. This training is based on the management system model of continual improvement also used for other well-known standards such as ISO 9001 or ISO 14001. This way, organizations easily integrate energy management into their general efforts to improve quality and environmental management and it supports organizations in all sectors to use energy more efficiently, through the development of an energy management system (EnMS).



WHO SHOULD ATTEND?

- ▶ Project managers or consultants wanting to prepare and to support an organization in the implementation of an Energy Management System (EnMS)
- ▶ Management representatives
- ▶ Energy executives
- ▶ ISO 50001 auditors who wish to fully understand the Energy Management System implementation process
- ▶ Persons responsible for the Energy or conformity in an organization
- ▶ Members of an energy team
- ▶ Expert advisors in Energy Management Systems
- ▶ Technical experts wanting to prepare for energy function or for an EnMS project management function

COURSE AGENDA

DURATION: 5 DAYS

DAY 1 Introduction to ISO 50001 and initiation of Energy Management System (EnMS)

- ▶ Introduction to management systems and the process approach
- ▶ Standard and regulatory structure
- ▶ Initiating the EnMS implementation
- ▶ Understanding the organization
- ▶ Analysis of the existing management system
- ▶ Leadership and project approval

DAY 2 Planning the Energy Management System

- ▶ Definition of energy scope boundaries and Energy Policy
- ▶ Energy planning
- ▶ Legal and other requirements
- ▶ Objectives, targets and action plan
- ▶ Managing resources for EnMS and control of documents
- ▶ Control, procedures and design in EnMS

DAY 3 Implementing and monitoring an EnMS based on ISO 50001

- ▶ Procuring process
- ▶ Development of a training & awareness program and communicating about the energy
- ▶ Operational control
- ▶ Monitoring, measuring, analysis and evaluation of energy performance
- ▶ Evacuation of compliance with legal and other requirements

DAY 4 EnMS reviewing, continuous improvement and the certification audit of an EnMS in accordance with ISO 50001

- ▶ ISO 50001 internal audit
- ▶ Management review of EnMS
- ▶ Treatment of problems and nonconformities
- ▶ Preparing for a ISO 50001 certification audit
- ▶ Competence and evaluation of implementers

DAY 5 Certification Exam



LEARNING OBJECTIVES

- ▶ To understand the implementation of Energy Management System in accordance with ISO 50001 and to be able to accomplish the requirements from implementation perspective
- ▶ To gain a comprehensive understanding of the concepts, approaches, standards, methods and techniques required for the effective management of Energy Management System
- ▶ To understand the relationship between the components of Energy Management System and the compliance with the requirements of different stakeholders of an organization
- ▶ To acquire necessary expertise to support an organization in implementing, managing and maintaining EnMS as specified in ISO 50001
- ▶ To acquire necessary expertise to manage a team implementing ISO 50001
- ▶ To develop the knowledge and skills required to advise organizations on best practices in the management of quality
- ▶ To improve the capacity for analysis and decision making in the context of energy management
- ▶ To prepare an organization for an ISO 50001 audit

EXAMINATION

The “PECB Certified ISO 50001 Lead Implementer” exam fully meets the requirements of the PECB Examination and Certification Program (ECP). The exam covers the following competence domains:

1 Domain 1: Fundamental principles and concepts in Energy Management

Main Objective: To ensure that the ISO 50001 Lead Implementer candidate can understand, interpret and illustrate the main Energy Management concepts related to an Energy Management System (EnMS)

2 Domain 2: Energy Management Best Practices based on ISO 50001

Main Objective: To ensure that the ISO 50001 Lead Implementer candidate can understand, interpret and provide guidance on how to implement and manage Energy Management requirements based on best practices of ISO 50001

3 Domain 3: Planning an EnMS based on ISO 50001

Main Objective: To ensure that the ISO 50001 Lead Implementer candidate can plan the implementation of an EnMS in preparation for an ISO 50001 certification

4 Domain 4: Implementing an EnMS based on ISO 50001

Main Objective: To ensure that the ISO 50001 Lead Implementer candidate can implement the processes of an EnMS required for an ISO 50001 certification

5 Domain 5: Performance evaluation, monitoring and measurement of an EnMS based on ISO 50001

Main Objective: To ensure that the ISO 50001 Lead Implementer candidate can evaluate, monitor and measure the performance of an EnMS in the context of an ISO 50001 certification

6 Domain 6: Continual improvement of an EnMS based on ISO 50001

Main Objective: To ensure that the ISO 50001 Lead Implementer candidate can provide guidance on the Continual improvement of an EnMS in the context of ISO 50001

7 Domain 7: Preparation for an EnMS certification audit

Main Objective: To ensure that the ISO 50001 Lead Implementer candidate can prepare and assist an organization for the certification of an EnMS against the ISO 50001 standard

- ▶ The “PECB Certified ISO 5001 Lead Implementer” exam is available in different languages, such as English, French, Spanish and Portuguese
- ▶ Duration: 3 hours
- ▶ For more information about the exam, please visit: www.pecb.com



CERTIFICATION

- ▶ After successfully completing the exam, participants can apply for the credentials of PECB Certified ISO 50001 Provisional Implementer, PECB Certified ISO 50001 Implementer or PECB Certified ISO 50001 Lead Implementer, depending on their level of experience
- ▶ A certificate will be issued to participants who successfully passed the exam and comply with all the other requirements related to the selected credential:

Credential	Exam	Professional Experience	EnMS Audit Experience	EnMS Project Experience	Other Requirements
PECB ISO 50001 Provisional Implementer	PECB ISO 50001 Lead Implementer Exam	None	None	None	Signing the PECB code of ethics
PECB ISO 50001 Implementer	PECB ISO 50001 Lead Implementer Exam	Two years One year of Energy Management work experience	None	Project activities totaling 200 hours	Signing the PECB code of ethics
PECB ISO 50001 Lead Implementer	PECB ISO 50001 Lead Implementer Exam	Five years Two years of Energy Management work experience	None	Project activities totaling 300 hours	Signing the PECB code of ethics

GENERAL INFORMATION

- ▶ Certification fees are included in the exam price
- ▶ Participant manual contains over 450 pages of information and practical examples
- ▶ A participation certificate of 31 CPD (Continuing Professional Development) credits will be issued to the participants
- ▶ In case of failure of the exam, participants are allowed to retake it for free under certain conditions