Publication date : 03/08/2024

Course : ISO 50001 Foundation , PECB certification

Understand best practices in energy management systems (EMS)

Practical course - 2d - 14h00 - Ref. ENJ

Price : 1410 € E.T.

This step-by-step training course covers the fundamental elements of implementing and managing an ISO 50001-compliant energy management system: procedures, performance measurement, management commitment, internal audit, management review and continuous improvement.

Teaching objectives

At the end of the training, the participant will be able to:

- Understand the elements and functioning of an energy management system and its main processes
- Understanding the correlation between ISO 50001 and other standards and regulatory frameworks
- Know the approaches, methods and techniques for implementing an energy management system
- Know the approaches, methods and techniques for managing an energy management system

Intended audience

Anyone involved in energy management, Anyone wishing to learn more about the main processes involved in an energy management system (EMS).

Prerequisites

No special knowledge required.

Certification

ISO 50001 Foundation certification exam - PECB. Exam duration: 1 hour at the end of Day 2. Format: 40 closed-book MCQ questions. Exam and support in English.

PARTICIPANTS

Anyone involved in energy management, Anyone wishing to learn more about the main processes involved in an energy management system (EMS).

PREREQUISITES

No special knowledge required.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

Practical details

Case study

A red thread case study anchors the concepts throughout the course.

Course schedule

1 ISO standards and the standards framework

- Management system standards.
- Integrated management systems.
- The ISO 50000 family of standards.
- The benefits of ISO 50001.

2 Fundamental concepts and principles of energy management

- Key definitions.
- Energy management system.
- Main energy consumption.
- Energy reference.
- Energy performance indicators.

3 Energy management system

- Definition of an energy management system (EMS).
- Overview of clauses 4 to 10 of ISO 500001.
- Choice of a methodological framework to manage the implementation of an EMS.

4 Organizational context and leadership

- Understand the organization and its context.
- The needs and expectations of interest groups.
- Legal and regulatory requirements.
- The scope of an EMS.
- Leadership and commitment.
- Energy policy.
- Roles, responsibilities and authorities.

5 Planning

- Identifying risks and opportunities.
- Energy objectives and targets.
- Changes at the EMS.

6 Support and operation

- Resources. Competence and awareness.
- Communication. Documented information.
- Operational and control plan.
- Design.
- Procurement.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.

• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.

• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

7 Performance, evaluation and improvement

- Monitoring, measurement, analysis and evaluation.
- Non-conformities and corrective actions.
- Continuous improvement.
- Internal audit.
- Management review.

8 Iso 50001 Foundation certification exam

- Area 1: Fundamental principles and concepts of the energy management system.
- Area 2: Energy management system.

Exam

ISO 50001 Foundation certification exam - PECB. Exam duration: 1 hour at the end of Day 2. Format: 40 closed-book MCQ questions. Exam and support in English.

Dates and locations

REMOTE CLASS
2026 : 8 June, 21 Sep., 3 Dec.

PARIS LA DÉFENSE
2026 : 1 June, 14 Sep., 26 Nov.