

# CERTIFIED ISO 50001 LEAD AUDITOR



MASTERING THE AUDIT OF AN ENERGY MANAGEMENT SYSTEM ( EnMS ) BASED ON  
ISO 50001, IN COMPLIANCE WITH THE REQUIREMENTS OF ISO 19011 AND ISO 17021

## SUMMARY

This five-day intensive course enables the participants to develop the needed expertise to audit an Energy Management System (EnMS) based on ISO 50001 and to manage a team of auditors by applying widely recognized audit principles, procedures and techniques. During this training, the participant will acquire the necessary knowledge and skills to proficiently plan and perform internal and external audits in compliance with ISO 19011 and certification audits according to ISO 17021. Based on practical exercises, the participant will develop the skills (mastering audit techniques) and competencies (managing audit teams and audit program, communicating with customers, conflict resolution, etc.) necessary to efficiently conduct an audit.

## COURSE AGENDA

DURATION: 5 DAYS

### DAY1

Introduction to Energy Management System (EnMS) concepts as required by ISO 50001

- ▶ Normative frameworks and methodologies related to Energy
- ▶ Fundamental principles of Energy management
- ▶ ISO 50001 certification process
- ▶ Energy Management System (EnMS)
- ▶ Detailed presentation of the clauses of ISO 50001

### DAY2

Day 2: Planning and initiating an ISO 50001 audit

- ▶ Fundamental audit concepts and principles
- ▶ Audit approach based on evidence
- ▶ Preparation of an ISO 50001 certification audit
- ▶ EnMS documentation audit
- ▶ Conducting an opening meeting

### DAY3

Conducting an ISO 50001 audit

- ▶ Communication during the audit
- ▶ Audit procedures: observation, document review, interview, sampling techniques, technical verification, corroboration and evaluation
- ▶ Audit test plans
- ▶ Formulation of audit findings
- ▶ Documenting nonconformities

### DAY4

Concluding and ensuring the follow-up of an ISO 50001 audit

- ▶ Audit documentation
- ▶ Quality review
- ▶ Conducting a closing meeting and conclusion of an ISO 50001 audit
- ▶ Evaluation of corrective action plans
- ▶ ISO 50001 surveillance audit
- ▶ ISO 50001 internal audit management program

### DAY5 Certification Exam



## WHO SHOULD ATTEND?

- ▶ Internal auditors
- ▶ Auditors wanting to perform and lead Energy Management System (EnMS) certification audits
- ▶ Project managers or consultants wanting to master the Energy Management System audit process
- ▶ Individuals responsible for the energy or conformity in an organization
- ▶ Members of energy team
- ▶ Expert advisors in Energy Management Systems
- ▶ Technical experts wanting to prepare for energy audit function

## LEARNING OBJECTIVES

- ▶ To understand the implementation of an 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 an 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



Certified  
ISO 50001  
Lead Auditor





## EXAMINATION

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

### DOMAIN 1: FUNDAMENTAL PRINCIPLES AND CONCEPTS IN ENERGY MANAGEMENT

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

### DOMAIN 2: ENERGY MANAGEMENT SYSTEM (EnMS)

- 2 Main Objective: To ensure that the ISO 50001 Lead Auditor candidate can understand, interpret and illustrate the main concepts and components of an Energy Management System based on ISO 50001

### DOMAIN 3: FUNDAMENTAL AUDIT CONCEPTS AND PRINCIPLES

- 3 Main Objective: To ensure that the ISO 50001 Lead Auditor candidate can understand, interpret and apply the main concepts and principles related to an EnMS audit in the context of ISO 50001

### DOMAIN 4: PREPARATION OF AN ISO 50001 AUDIT

- 4 Main Objective: To ensure that the ISO 50001 Lead Auditor candidate can prepare appropriately an EnMS audit in the context of ISO 50001

### DOMAIN 5: CONDUCT OF AN ISO 50001 AUDIT

- 5 Main Objective: To ensure that the ISO 50001 Lead Auditor candidate can conduct efficiently an EnMS audit in the context of ISO 50001

### DOMAIN 6: CONCLUSION AND FOLLOW-UP OF AN ISO 50001 AUDIT

- 6 Main Objective: To ensure that the ISO 50001 Lead Auditor candidate can conclude an EnMS audit and conduct follow-up activities in the context of ISO 50001

### DOMAIN 7: MANAGEMENT OF AN ISO 50001 AUDIT PROGRAM

- 7 Main Objective: To ensure that the ISO 50001 Lead Auditor understands how to establish and manage an EnMS audit program

- ▶ The “Certified ISO 50001 Lead Auditor” exam is available in different languages, including English, French, Spanish and Portuguese
- ▶ Duration: 3 hours
- ▶ For more information about the exam, please visit: [www.rcertsea.com](http://www.rcertsea.com)

## CERTIFICATION

- ▶ After successfully completing the exam, participants can apply for the credentials of Certified ISO 50001 Provisional Auditor, Certified ISO 50001 Auditor or Certified ISO 50001 Lead Auditor depending on their level of experience. Those credentials are available for internal and external auditors
- ▶ A certificate will be issued to participants who successfully pass 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
ISO 50001 Provisional Auditor	ISO 50001 Lead Auditor Exam	None	None	None	Signing the PECB code of ethics
ISO 50001 Auditor	ISO 50001 Lead Auditor Exam	Two years One year of Energy Management work experience	Audit activities totaling 200 hours	None	Signing the PECB code of ethics
ISO 50001 Lead Auditor	ISO 50001 Lead Auditor Exam	Five years Two years of Energy Management work experience	Audit activities totaling 300 hours	None	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



### ROYALCERT INTERNATIONAL REGISTRAR RCERT (SEA) SDN BHD

Contact : +603-3322 1535  
Email : enquiry@rcertsea.com  
Website : www.rcertsea.com

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