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Auditing Energy Management System ISO 50001:2018

Course No. 370C

ISO 50001:2018 specifies requirements for establishing, implementing, maintaining and improving an energy management system, whose purpose is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance, including energy efficiency, energy use and consumption.

The standard will provide organizations and companies with technical and management strategies to increase energy efficiency, reduce costs, and improve environmental performance. Based on broad applicability across national economic sectors, the future standard could influence up to 60% of the world's energy demand. Although originally intended for industry, the standard will apply to any type of organization that wishes to manage effectively uses and efficiency.

Course Benefits

- Ensure regulatory compliance
- Optimize energy use & cut costs
- Improve organizational transparency
- Drive continual improvement

Prerequisites

None

Duration

Three Days (21 hours)

Learning Objectives

At the end of this course, participants will be able to:

- Explain the purpose, scope, and structure of ISO 50001
- Understand the Plan-Do-Check-Act (PDCA) Cycle in ISO 50001:2018
- Define key EnMS concepts
- Interpret and apply clauses of ISO 50001 in real-world scenarios
- Identify energy-related legal, regulatory, and other compliance obligations
- Understand documentation and records requirements
- Define audit scope, criteria, and objectives
- Develop audit plans and checklists tailored to energy performance
- Identify energy-related risks and opportunities for audit focus
- Apply auditing principles and techniques
- Conduct effective interviews and gather objective evidence



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- Observe operations and evaluate energy-related controls and performance
- Assess compliance with ISO 50001 clauses
- Identify and document nonconformities, findings, and improvement areas
- Evaluate energy performance indicators (EnPIs) and energy baselines
- Draft clear and concise audit reports
- Recommend corrective and preventive actions
- Verify implementation of corrective actions and effectiveness
- Use audit findings to drive EnMS improvements
- Promote a culture of energy awareness and performance monitoring
- Align EnMS audits with broader sustainability and business goals

Topics Covered:

1. Overview of Energy Management Systems (EnMS)
2. Introduction to ISO 50001:2018 standard
3. ISO 50001:2018 Requirements
4. Energy Performance Concepts
5. Principles of Auditing
6. Audit Planning and Preparation
7. Conducting the EnMS Audit
8. Reporting Audit Results
9. Corrective Actions and Follow-up

Instructor

The seminar leader will be a Certified Lead Auditor with ASQ CQA with over 20 years' experience in implementing management systems.

Who Should Attend?

Energy managers/coordinators, energy auditors/environmental auditors/consultants, energy professionals with experience in implementation and auditing or management systems, management representatives, executives and core group members responsible for establishing, implementing, maintaining, auditing and improving management systems like ISO 50001 (EnMS).

For More Information

Contact the Training Administrator: training@qpsinc.com or call 1(508)786-0777