



*Training Course:
Energy Management Systems for Internal Auditor*

*8 - 12 December 2024
Alexandria (Egypt)*

Training Course: Energy Management Systems for Internal Auditor

Training Course code: EW234782 From: 8 - 12 December 2024 Venue: Alexandria (Egypt) - Training Course Fees: 4750 € Euro

Introduction

The ISO 50001:2018 Energy Management Standard EnMS evaluates a company's conformance to a set of criteria to improve energy performance. This training course focuses on energy efficiency, energy security, and energy use and consumption. The standard specifies the requirements for establishing, implementing, maintaining, and improving an energy management system.

Saving energy is the main driving force towards developing and maintaining a competitive edge within any company by implementing the correct strategy and system to support continuous energy management and saving improvements. The standard provides a framework for ongoing and successful energy savings and enables managed energy efficiency in any organization. The standard is based on the Plan Do Check Act continual improvement framework and incorporates energy management into everyday organizational practices.

The standard does not prescribe how it must be done; it gives the organization the freedom to determine what best suits its needs. This training course provides the tools for an internal auditor to analyze and determine what is needed for a company to conform to the standard before getting audited externally or improve a company's energy performance based on the international framework if certification is not desired.

Course Objectives:

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

- Understand, draft, and implement the EnMS policy
- Implement the EnMS and track energy performance with confidence, and identify deficiencies and required corrective actions to confirm the system's effectiveness
- Highlight system weaknesses before the related potential problems are reflected in the energy performance
- Develop a framework for investigating operations in a particular area in response to significant energy issues
- Demonstrate continual improvement in energy performance and identify potential opportunities

Target Audience:

- Energy Managers
- Operational or Facility/Building Managers
- Maintenance Managers
- Building or Process Operators
- Energy Engineering Consultants and Project Engineers

Course Outline:

Day 1

KEY CONCEPTS OF AN ENERGY MANAGEMENT SYSTEMS EnMS

- Climate Change Policies and Framework
- Energy Efficiency Benefits and Barriers
- Energy Management Concepts
- ISO 50001 Model and Key Concepts
- Management Commitment
- Legal and other requirements
- Scopes and Boundaries
- Energy Policy
- Roles and Responsibilities
- Energy Management Team
- Resources
- Competence and Awareness
- Communication and Documentation

Day 2

ENERGY REVIEW I

- Planning
- Gather Data
- Analyse Trends
- Identify Significant Energy Uses
- Quantify Relevant Variables
- Linear and Multiple Regressions
- Energy Performance Indicators and Baselines

Day 3

ENERGY REVIEW II

- Energy System Optimization
- Identify Opportunities
- Review Control
- Critical Operating Parameters
- Technology
- Objectives, Energy Targets, and Action Plans
- Develop an Energy Plan

Day 4

IMPLEMENTATION, OPERATION, EVALUATION, AND IMPROVEMENT

- Operational Control
- Energy Efficient Design
- Procurement
- Performance Checking
- Deviations
- Internal Audit
- Management Review
- Non-Conformity and Corrective Action
- Measurement & Verification

Day 5

ENERGY PERFORMANCE, FINANCIAL ANALYSIS, AND BUILDING THE BUSINESS CASE

- Energy Performance
- Energy Metrics
- Financial Analysis
- Developing the Business Case

Registration form on the Training Course: Energy Management Systems for Internal Auditor

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