



*Training Course:
Energy Management Systems for Internal Auditor*

*25 - 29 April 2027
Cairo (Egypt)*

Training Course: Energy Management Systems for Internal Auditor

Training Course code: EW234782 From: 25 - 29 April 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € 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.

This course also introduces the principles and practices of internal auditing in accordance with ISO 50001:2018, enabling participants to assess compliance, identify non-conformities, and recommend corrective actions to enhance the effectiveness of the Energy Management System.

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 potential problems impact energy performance
- Develop a framework for investigating operations in response to significant energy issues
- Demonstrate continual improvement in energy performance and identify potential opportunities
- Understand the principles of internal auditing for Energy Management Systems
- Plan and conduct internal audits in accordance with ISO 50001 requirements
- Prepare audit reports and follow up on corrective actions

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
- Introduction to Internal Audit principles
- Audit types and audit lifecycle
- Preparing audit checklists
- 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
- Conducting internal audit interviews
- Audit reporting and documentation
- Non-conformity classification and corrective action follow-up

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

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