

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 17743 — Energy Savings Definitions and Methodology

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference ENG-SAV-17743 • ISO Energy

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AT A GLANCE

REFERENCE	ENG-SAV-17743
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Energy Savings Definitions

5 chapters · 30 classes 65 marks

• 1 Foundational Concepts of Energy Savings — 6 classes

› 1.1 Define Key Energy Savings Terms

› 1.2 Explore the Importance of Energy Savings in Sustainability

› 1.3 Identify Different Categories of Energy Savings

› 1.4 Analyze the Methodologies for Measuring Energy Savings

› 1.5 Evaluate the Impact of Energy Savings on Cost Reduction

› 1.6 Apply Energy Savings Definitions to Real-World Scenarios

• 2 Understanding Energy Savings Measurements — 6 classes

› 2.1 Define Key Terms in Energy Savings Measurements

› 2.2 Explore Different Types of Energy Savings Measurements

› 2.3 Analyze the Importance of Accurate Energy Savings Data

› 2.4 Examine Common Methodologies for Measuring Energy Savings

› 2.5 Compare ISO 17743 Standards with Other Measurement Standards

› 2.6 Apply Energy Savings Measurements to Real-World Scenarios

• 3 Energy Savings Calculation Methods — 6 classes

› 3.1 Define Key Terms in Energy Savings Calculations

› 3.2 Explore Different Energy Savings Calculation Methods

› 3.3 Analyze the Impact of Energy Savings Calculations on Projects

› 3.4 Compare Energy Savings Metrics and Indicators

› 3.5 Apply Energy Savings Calculation Methods to Case Studies

› 3.6 Evaluate the Effectiveness of Selected Calculation Methods

• 4 Application of Energy Savings Definitions in Practice — 6 classes

› 4.1 Define Key Energy Savings Terms and Concepts

› 4.2 Explore the Role of Energy Savings in Sustainable Practices

› 4.3 Identify Measurement Methods for Energy Savings Calculations

› 4.4 Analyze Case Studies of Energy Savings Definitions in Action

› 4.5 Discuss Challenges and Solutions in Implementing Energy Savings Definitions

› 4.6 Develop a Practical Energy Savings Implementation Plan

• 5 Evaluating Energy Savings Outcomes and Reporting — 6 classes

› 5.1 Define Key Energy Savings Terms and Concepts

› 5.2 Identify Measurement Methods for Energy Savings Outcomes

› 5.3 Explore Data Collection Techniques for Energy Savings Evaluation

› 5.4 Analyze Case Studies of Successful Energy Savings Reporting

› 5.5 Evaluate the Impact of Energy Savings on Sustainability Goals

› 5.6 Develop a Comprehensive Energy Savings Reporting Framework

• 1 Introduction to ISO Standards and Compliance in Energy Management — 6 classes

- › 1.1 Define ISO Standards in Energy Management
- › 1.2 Explore the Importance of ISO Compliance
- › 1.3 Identify Key ISO Standards Relevant to Energy Savings
- › 1.4 Analyze the ISO 17743 Certification Process
- › 1.5 Examine Methodologies for Measuring Energy Savings
- › 1.6 Implement Strategies for Achieving ISO 17743 Compliance

• 2 Understanding ISO 17743: Framework for Energy Savings Definitions — 6 classes

- › 2.1 Define Key Concepts in ISO 17743 Energy Savings
- › 2.2 Identify the Scope of ISO 17743 Framework
- › 2.3 Explore Energy Savings Measurement Methodologies
- › 2.4 Analyze the Role of Stakeholders in Energy Savings
- › 2.5 Apply ISO 17743 to Real-World Energy Savings Scenarios
- › 2.6 Evaluate Compliance and Reporting Requirements under ISO 17743

• 3 Practical Applications of ISO 17743 in Energy Saving Initiatives — 6 classes

- › 3.1 Explore the Key Principles of ISO 17743 for Energy Efficiency
- › 3.2 Identify Energy Saving Metrics Defined by ISO 17743
- › 3.3 Analyze Real-World Case Studies of ISO 17743 Implementation
- › 3.4 Develop a Checklist for ISO 17743 Compliance in Energy Projects
- › 3.5 Create Action Plans for Energy Savings Using ISO 17743 Guidelines
- › 3.6 Evaluate the Impact of ISO 17743 on Continuous Improvement in Energy Management

• 4 Measuring and Reporting Energy Savings According to ISO Standards — 6 classes

- › 4.1 Define Key Terms in Energy Savings Measurement
- › 4.2 Explain the Importance of ISO Standards in Energy Reporting
- › 4.3 Identify Methodologies for Measuring Energy Savings
- › 4.4 Analyze Case Studies on Successful Energy Savings Reporting
- › 4.5 Develop a Framework for Reporting Energy Savings
- › 4.6 Create a Sample Report Following ISO 17743 Guidelines

• 5 Leadership and Governance in ISO Compliance for Energy Management — 6 classes

- › 5.1 Define Key Leadership Roles in ISO Energy Management
- › 5.2 Identify Governance Structures for Effective ISO Compliance
- › 5.3 Explore the Importance of Leadership Engagement in Energy Savings
- › 5.4 Assess Leadership Accountability in ISO Compliance Initiatives
- › 5.5 Develop Actionable Strategies for Energy Management Leadership
- › 5.6 Evaluate the Impact of Governance on Energy Saving Outcomes

• 1 Understanding Energy Efficiency Concepts and Terminology — 6 classes

- › 1.1 Define Key Energy Efficiency Terminology
- › 1.2 Explore the Importance of Energy Efficiency in Sustainability
- › 1.3 Identify Common Energy Efficiency Metrics and Indicators
- › 1.4 Analyze Case Studies of Successful Energy Efficiency Implementations
- › 1.5 Illustrate the Relationship Between Energy Efficiency and Cost Savings
- › 1.6 Develop a Personal Energy Efficiency Action Plan

• 2 Key Principles of Energy Savings Methodologies — 6 classes

- › 2.1 Define Energy Savings and Its Importance in Methodologies
- › 2.2 Identify Key Components of Energy Savings Methodologies
- › 2.3 Explore Different Types of Energy Savings Measurement Techniques
- › 2.4 Analyze Case Studies of Effective Energy Savings Implementations
- › 2.5 Evaluate the Role of Stakeholders in Energy Savings Methodologies
- › 2.6 Apply ISO 17743 Principles to Develop a Basic Energy Savings Plan

• 3 Data Collection and Analysis for Energy Savings Assessment — 6 classes

- › 3.1 Identify Key Data Sources for Energy Savings Assessments
- › 3.2 Collect and Organize Relevant Energy Usage Data
- › 3.3 Analyze Data Trends to Determine Energy Savings Potential
- › 3.4 Evaluate Data Quality and Reliability for Accurate Assessments
- › 3.5 Utilize Data Visualization Techniques for Energy Insights
- › 3.6 Apply Findings to Propose Data-Driven Energy Efficiency Measures

• 4 Developing and Implementing Energy Efficiency Strategies — 6 classes

- › 4.1 Define Key Energy Efficiency Concepts
- › 4.2 Analyze Existing Energy Consumption Data
- › 4.3 Identify Potential Areas for Energy Savings
- › 4.4 Develop Energy Efficiency Goals and Objectives
- › 4.5 Implement Energy Efficiency Measures Effectively
- › 4.6 Evaluate and Adjust Energy Efficiency Strategies

• 5 Evaluating and Reporting on Energy Savings Outcomes — 6 classes

- › 5.1 Assessing Energy Savings Metrics and Indicators
- › 5.2 Understanding Baseline Measurements for Energy Use
- › 5.3 Analyzing Quantitative vs. Qualitative Outcomes
- › 5.4 Utilizing Reporting Standards for Energy Efficiency
- › 5.5 Implementing Data Verification Techniques in Reporting
- › 5.6 Communicating Energy Savings Results to Stakeholders

• 1 Understanding Energy Savings: Key Definitions and Concepts —

6 classes

- › 1.1 Define Key Energy Savings Terms and Concepts
- › 1.2 Explore the Importance of Energy Savings in Project Planning
- › 1.3 Identify Common Methods for Measuring Energy Savings
- › 1.4 Analyze Energy Savings Data and Its Implications
- › 1.5 Implement Energy Savings Strategies in Project Lifecycle
- › 1.6 Evaluate the Impact of Energy Savings on Sustainability Goals

• 2 Establishing Baseline Energy Consumption

• 3 Developing Project Goals and Objectives for Energy Savings Initiatives

• 4 Implementing Energy Savings Projects: Best Practices and Strategies

• 5 Monitoring and Reporting on Energy Savings Outcomes

• 1 Understanding Energy Management Frameworks and ISO 17743 Standards — 6 classes

- › 1.1 Explore the Foundations of Energy Management Frameworks
- › 1.2 Analyze the Key Components of ISO 17743 Standards
- › 1.3 Identify Benefits of Implementing ISO 17743 in Organizations
- › 1.4 Evaluate Energy Savings Definitions within ISO 17743
- › 1.5 Assess Methodologies for Measuring Energy Savings
- › 1.6 Develop a Strategic Plan for ISO 17743 Implementation

• 2 Identifying and Analyzing Energy Use Patterns — 6 classes

- › 2.1 Define Key Energy Use Terms and Concepts
- › 2.2 Identify Different Sources of Energy Consumption in Organizations
- › 2.3 Analyze Historical Energy Use Data for Patterns
- › 2.4 Utilize Energy Management Tools for Data Collection
- › 2.5 Develop Visual Representations of Energy Use Trends
- › 2.6 Create Action Plans Based on Energy Use Analysis

• 3 Setting Energy Reduction Goals and Metrics — 6 classes

- › 3.1 Define Key Energy Reduction Terms and Concepts
- › 3.2 Assess Current Energy Consumption Metrics
- › 3.3 Identify Stakeholders for Energy Reduction Goals
- › 3.4 Establish SMART Goals for Energy Reduction
- › 3.5 Create a Framework for Monitoring Energy Performance
- › 3.6 Develop Action Plans to Achieve Energy Reduction Targets

• 4 Implementing Energy Saving Strategies and Technologies — 6 classes

- › 4.1 Identify Key Energy Saving Opportunities in Your Organization
- › 4.2 Assess Current Energy Consumption and Benchmarking Techniques
- › 4.3 Develop Energy Saving Action Plans Based on Identified Opportunities
- › 4.4 Explore Innovative Technologies for Energy Efficiency Enhancement
- › 4.5 Implement Monitoring and Control Systems for Continuous Improvement
- › 4.6 Evaluate the Impact of Energy Saving Strategies on Organizational Performance

• 5 Monitoring and Continuous Improvement in Energy Management

— 6 classes

- › 5.1 Identify Key Performance Indicators for Energy Management
- › 5.2 Implement Monitoring Tools for Real-Time Energy Analysis
- › 5.3 Analyze Energy Consumption Data to Identify Trends
- › 5.4 Develop a Continuous Improvement Plan Based on Insights
- › 5.5 Engage Stakeholders in Energy Saving Initiatives
- › 5.6 Evaluate the Effectiveness of Energy Management Strategies