

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 52000SAV — Energy Performance of Buildings

ISO Certification Programme



LAPT — London Academy of Professional Training

Address 85 Great Portland Street, W1W 7LT, London, United Kingdom

Email info@lapt.org

Telephone +44 7513 283044

Web lapt.org

Reference ENG-SAV-52000SAV • ISO Energy

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AT A GLANCE

REFERENCE	ENG-SAV-52000SAV
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Energy Auditing Techniques

5 chapters · 30 classes

85 marks

• 1 Fundamentals of Energy Auditing Concepts — 6 classes

› 1.1 Define Key Energy Audit Concepts

› 1.2 Identify Components of Energy Performance in Buildings

› 1.3 Explain the Importance of Energy Auditing

› 1.4 Describe the Steps Involved in Conducting an Energy Audit

› 1.5 Analyze Data Collection Methods for Energy Audits

› 1.6 Apply Energy Audit Findings to Develop Improvement Strategies

• 2 Energy Audit Process and Methodology — 6 classes

› 2.1 Define Energy Audit Objectives and Scope

› 2.2 Identify Key Components of Energy Consumption

› 2.3 Develop a Comprehensive Data Collection Plan

› 2.4 Analyze Energy Usage Patterns and Trends

› 2.5 Evaluate Energy Saving Opportunities and Solutions

› 2.6 Present Findings and Recommendations Effectively

• 3 Data Analysis Techniques for Energy Consumption — 6 classes

› 3.1 Identify Key Energy Consumption Metrics

› 3.2 Analyze Historical Energy Usage Patterns

› 3.3 Compare Energy Performance Against Benchmarks

› 3.4 Utilize Statistical Tools for Data Analysis

› 3.5 Interpret Results to Identify Energy Saving Opportunities

› 3.6 Present Findings and Recommendations Effectively

• 4 Identifying Energy Efficiency Opportunities — 6 classes

› 4.1 Analyze Current Energy Consumption Patterns

› 4.2 Identify Key Areas for Energy Loss

› 4.3 Evaluate Energy-Efficient Technologies

› 4.4 Assess the Impact of Behavioral Changes

› 4.5 Prioritize Energy Efficiency Improvements

› 4.6 Develop a Comprehensive Action Plan for Optimization

• 5 Reporting and Implementation of Audit Findings — 6 classes

› 5.1 Analyze Key Audit Findings for Energy Performance

› 5.2 Structure an Effective Audit Report Framework

› 5.3 Identify Target Areas for Energy Improvement

› 5.4 Develop Actionable Recommendations Based on Findings

› 5.5 Communicate Audit Results to Stakeholders Effectively

› 5.6 Implement Follow-up Strategies for Continuous Improvement

• 1 Introduction to Energy Performance Standards and ISO 52000SAV — 6 classes

- › 1.1 Define Energy Performance Standards and Their Importance
- › 1.2 Explore the ISO 52000SAV Framework and Key Components
- › 1.3 Analyze the Benefits of ISO 52000SAV for Building Efficiency
- › 1.4 Identify Stakeholders and Their Roles in Energy Performance
- › 1.5 Examine Case Studies of ISO 52000SAV Implementation
- › 1.6 Develop an Action Plan for Adopting Energy Performance Standards

• 2 Key Principles of Energy Performance Evaluation — 6 classes

- › 2.1 Define Key Terms in Energy Performance Evaluation
- › 2.2 Identify the Objectives of ISO 52000SAV Standards
- › 2.3 Explore the Components of Energy Performance Assessment
- › 2.4 Analyze the Methods for Evaluating Energy Consumption
- › 2.5 Examine Case Studies of Energy Performance Implementation
- › 2.6 Develop a Practical Energy Performance Evaluation Plan

• 3 Implementation of Energy Performance Standards in Building Design — 6 classes

- › 3.1 Analyze the Importance of Energy Performance Standards in Building Design
- › 3.2 Identify Key Components of ISO 52000SAV for Sustainable Architecture
- › 3.3 Evaluate Current Energy Performance Standards Applied in the UK
- › 3.4 Develop Strategies for Integrating Energy Performance Standards in New Projects
- › 3.5 Assess Tools and Technologies for Measuring Energy Performance in Buildings
- › 3.6 Formulate Action Plans to Ensure Compliance with ISO 52000SAV Standards

• 4 Case Studies of Successful Energy Performance Implementation — 6 classes

- › 4.1 Analyze Successful Energy Performance Case Studies
- › 4.2 Identify Key Strategies for Effective Implementation
- › 4.3 Evaluate Energy Performance Challenges and Solutions
- › 4.4 Discuss Stakeholder Roles in Energy Performance Success
- › 4.5 Create a Plan for Energy Performance Improvement
- › 4.6 Present Findings on Energy Performance Best Practices

• 5 Future Trends and Innovations in Energy Performance Standards — 6 classes

- › 5.1 Explore Emerging Technologies in Energy Performance Standards
- › 5.2 Analyze the Impact of Smart Materials on Building Energy Efficiency
- › 5.3 Investigate the Role of Data Analytics in Energy Management Systems
- › 5.4 Evaluate Policy Changes Influencing Future Energy Performance Standards
- › 5.5 Design Innovative Solutions for Enhancing Energy Performance
- › 5.6 Implement Best Practices for Adopting Future Standards in Projects

• 1 Understanding Energy Management Principles — 6 classes

- › 1.1 Define Energy Management Principles in Buildings
- › 1.2 Identify Key Components of Energy Performance Standards
- › 1.3 Analyze the Role of Leadership in Energy Management
- › 1.4 Evaluate Best Practices for Energy Efficiency Implementation
- › 1.5 Develop Strategies for Monitoring Energy Performance
- › 1.6 Create an Action Plan for Sustainable Energy Leadership

• 2 Energy Performance Measurement and Benchmarking — 6 classes

- › 2.1 Understand Key Concepts of Energy Performance Measurement
- › 2.2 Identify Metrics for Assessing Energy Performance
- › 2.3 Explore Benchmarking Techniques for Energy Efficiency
- › 2.4 Analyze Case Studies on Energy Performance Outcomes
- › 2.5 Develop an Energy Benchmarking Strategy for Your Building
- › 2.6 Create an Action Plan for Improving Energy Performance Metrics

• 3 Leadership Strategies in Energy Management — 6 classes

- › 3.1 Assess Current Energy Management Practices
- › 3.2 Identify Key Leadership Traits for Energy Management
- › 3.3 Develop a Vision for Energy Performance Improvement
- › 3.4 Engage Stakeholders in Energy Management Initiatives
- › 3.5 Implement Strategies for Sustainable Energy Leadership
- › 3.6 Evaluate and Adjust Leadership Strategies Over Time

• 4 Implementing Energy Efficiency Projects — 6 classes

- › 4.1 Assess Current Energy Use and Identify Areas for Improvement
- › 4.2 Develop Measurable Energy Efficiency Goals and Objectives
- › 4.3 Explore and Select Appropriate Energy Efficiency Technologies
- › 4.4 Create a Detailed Implementation Plan for Energy Projects
- › 4.5 Engage Stakeholders and Foster Team Collaboration
- › 4.6 Monitor, Evaluate, and Report on Energy Efficiency Outcomes

• 5 Monitoring, Reporting, and Continuous Improvement — 6 classes

- › 5.1 Analyze Current Energy Performance Metrics
- › 5.2 Implement Data Collection Methods for Energy Monitoring
- › 5.3 Evaluate Reporting Standards in Energy Management
- › 5.4 Develop Effective Communication Strategies for Reporting Findings
- › 5.5 Identify Opportunities for Continuous Improvement in Energy Practices
- › 5.6 Create an Action Plan for Enhancing Energy Performance

• 1 Understanding Renewable Energy Sources and Technologies — 6

classes

- › 1.1 Explore the Basics of Renewable Energy Sources
- › 1.2 Identify Different Types of Renewable Energy Technologies
- › 1.3 Analyze the Benefits of Renewable Energy Integration
- › 1.4 Examine Key Challenges in Renewable Energy Adoption
- › 1.5 Compare the Efficiency of Various Renewable Energy Options
- › 1.6 Design a Simple Renewable Energy Integration Plan

• 2 Policies and Standards for Renewable Energy Integration — 6

classes

- › 2.1 Analyze Current Policies Impacting Renewable Energy Integration
- › 2.2 Evaluate Key Standards for Energy Performance in Buildings
- › 2.3 Identify Barriers to Renewable Energy Adoption in Building Policies
- › 2.4 Compare International Standards for Renewable Energy Integration
- › 2.5 Develop a Framework for Implementing Renewable Energy Policies
- › 2.6 Design an Action Plan for Compliance with ISO 52000SAV Standards

• 3 Energy Assessments and Renewable Energy Potential

• 4 Designing Renewable Energy Systems for Buildings

• 5 Monitoring, Maintenance, and Optimization of Renewable Energy Systems

• 1 Fundamentals of Sustainable Building Design — 6 classes

- › 1.1 Define Sustainable Building Design Principles
- › 1.2 Identify Key Elements of Energy Efficiency in Buildings
- › 1.3 Analyze the Role of Renewable Energy in Sustainable Design
- › 1.4 Evaluate Sustainable Materials for Construction
- › 1.5 Discuss the Importance of Indoor Environmental Quality
- › 1.6 Apply Sustainable Design Strategies to a Building Project

• 2 Energy Efficiency Strategies in Building Operations — 6 classes

- › 2.1 Assess Current Energy Use in Building Operations
- › 2.2 Identify Key Energy Efficiency Strategies
- › 2.3 Implement Renewable Energy Solutions
- › 2.4 Optimize HVAC Systems for Maximum Efficiency
- › 2.5 Utilize Smart Technology for Energy Management
- › 2.6 Evaluate and Monitor Energy Performance Improvements

• 3 Renewable Energy Integration in Buildings — 6 classes

- › 3.1 Explore Renewable Energy Sources for Building Integration
- › 3.2 Analyze Benefits of Renewable Energy in Sustainable Buildings
- › 3.3 Assess Building Energy Needs for Optimal Renewable Integration
- › 3.4 Design a Renewable Energy System for a Model Building
- › 3.5 Evaluate Smart Technology Solutions for Energy Management
- › 3.6 Implement a Renewable Energy Strategy in Real-Life Scenarios

• 4 Assessment and Certification Frameworks — 6 classes

- › 4.1 Explore the Importance of ISO 52000SAV in Sustainable Building
- › 4.2 Identify Key Assessment Criteria for Energy Performance
- › 4.3 Analyze Different Certification Frameworks in Practice
- › 4.4 Evaluate the Role of Stakeholders in the Certification Process
- › 4.5 Develop a Strategy for Achieving ISO 52000SAV Certification
- › 4.6 Implement Assessment Tools to Measure Energy Efficiency

• 5 Future Trends in Sustainable Building Technologies — 6 classes

- › 5.1 Explore Emerging Technologies in Sustainable Construction
- › 5.2 Analyze the Role of Smart Materials in Energy Efficiency
- › 5.3 Evaluate the Impact of Renewable Energy Integration in Buildings
- › 5.4 Investigate Innovations in Building Automation Systems
- › 5.5 Design a Sustainable Building Model Incorporating Future Trends
- › 5.6 Present Strategies for Implementing Sustainable Technologies in Existing Buildings