

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 14009 — Material Circulation in Design and Development

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference MGT-EVM-14009 • ISO Management & Services

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AT A GLANCE

REFERENCE	MGT-EVM-14009
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Environmental Management Systems

5 chapters · 30 classes85 marks

• 1 Introduction to Environmental Management Systems (EMS) and ISO 14009 — 6 classes

› 1.1 Define Environmental Management Systems and Their Importance

› 1.2 Explore the Key Principles of ISO 14009

› 1.3 Identify Stakeholders in EMS and Their Roles

› 1.4 Analyze the Benefits of Implementing ISO 14009

› 1.5 Evaluate Challenges in Adopting Environmental Management Systems

› 1.6 Develop an Action Plan for Implementing ISO 14009 in an Organization

• 2 Principles of Material Circulation in Product Lifecycle — 6 classes

› 2.1 Define Material Circulation and Its Importance in Product Lifecycle

› 2.2 Identify Key Principles of Sustainable Material Selection

› 2.3 Analyze the Environmental Impact of Material Choices

› 2.4 Explore Design Strategies to Enhance Material Reuse and Recycling

› 2.5 Assess Case Studies on Successful Material Circulation Practices

› 2.6 Develop an Action Plan for Implementing Material Circulation in Design

• 3 Design for Environment (DfE) Strategies — 6 classes

› 3.1 Introduce Design for Environment (DfE) Principles

› 3.2 Identify Key Environmental Issues in Design

› 3.3 Explore Sustainable Material Selection Techniques

› 3.4 Assess Lifecycle Impacts of Design Choices

› 3.5 Develop Strategies for Eco-Friendly Design Solutions

› 3.6 Evaluate Case Studies of Successful DfE Implementation

• 4 Implementation of ISO 14009: Steps and Best Practices — 6 classes

› 4.1 Understand Key Principles of ISO 14009

› 4.2 Identify Steps for Effective Implementation

› 4.3 Assess Current Practices Against ISO 14009 Standards

› 4.4 Develop a Comprehensive Action Plan for Implementation

› 4.5 Engage Stakeholders for Successful Material Circulation

› 4.6 Monitor and Review: Best Practices for Continuous Improvement

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

› 5.1 Identify Key Performance Indicators for EMS Monitoring

› 5.2 Develop Effective Reporting Mechanisms for Environmental Data

› 5.3 Analyze Environmental Performance Trends for Continuous Improvement

› 5.4 Implement Sustainability Metrics in EMS Practices

› 5.5 Engage Stakeholders in EMS Reporting and Feedback

› 5.6 Create Action Plans for EMS Adjustments Based on Monitoring Outcomes

• 1 Foundations of Evaluation in Environmental Management — 6 classes

- › 1.1 Define Key Concepts in Environmental Evaluation
- › 1.2 Identify Evaluation Frameworks for Sustainable Practices
- › 1.3 Analyze the Role of Stakeholder Engagement in Evaluations
- › 1.4 Develop Criteria for Effective Environmental Management Assessments
- › 1.5 Apply Evaluation Methods to Real-World Case Studies
- › 1.6 Propose Continuous Improvement Strategies Based on Evaluation Findings

• 2 Understanding Material Flow and Circulation Metrics — 6 classes

- › 2.1 Identify Key Material Flow Metrics in Design
- › 2.2 Analyse Current Material Circulation Practices
- › 2.3 Evaluate the Impact of Material Wastage on Sustainability
- › 2.4 Compare Efficient vs. Inefficient Material Flow Systems
- › 2.5 Develop Strategies for Enhancing Material Circulation
- › 2.6 Implement Continuous Improvement Techniques for Material Flow

• 3 Evaluating Design for Environmental Impact — 6 classes

- › 3.1 Identify Key Indicators of Environmental Impact in Design
- › 3.2 Assess Life Cycle Costs and Environmental Benefits of Materials
- › 3.3 Analyze Case Studies on Sustainable Design Practices
- › 3.4 Utilize Tools for Environmental Impact Evaluation
- › 3.5 Develop Action Plans for Design Improvement Based on Evaluations
- › 3.6 Present Findings and Recommendations for Continuous Improvement in Design

• 4 Continuous Improvement Strategies in Environmental Management — 6 classes

- › 4.1 Identify Key Continuous Improvement Strategies in Environmental Management
- › 4.2 Assess the Role of Leadership in Driving Environmental Improvements
- › 4.3 Analyze Environmental Performance Metrics for Effective Evaluation
- › 4.4 Apply Root Cause Analysis to Environmental Management Issues
- › 4.5 Develop an Action Plan for Implementing Improvement Strategies
- › 4.6 Review and Adapt Continuous Improvement Practices in Design Processes

• 5 Leadership in Environmental Evaluation and Improvement — 6 classes

- › 5.1 Define Environmental Leadership and Its Importance
- › 5.2 Assess Current Practices in Environmental Evaluation
- › 5.3 Identify Key Performance Indicators for Improvement
- › 5.4 Develop Strategies for Effective Environmental Evaluation
- › 5.5 Implement Continuous Improvement Processes in Leadership
- › 5.6 Foster a Culture of Sustainability within Organizations

• 1 Understanding Environmental Leadership Principles — 6 classes

- › 1.1 Define Environmental Leadership Principles
- › 1.2 Analyze the Role of Leadership in Sustainability
- › 1.3 Identify Key Stakeholders in Environmental Practices
- › 1.4 Evaluate Leadership Styles that Promote Environmental Change
- › 1.5 Develop a Strategic Plan for Implementing Environmental Practices
- › 1.6 Present Solutions for Enhancing Material Circulation in Design

• 2 ISO 14009 Framework and Guidelines — 6 classes

- › 2.1 Explore the ISO 14009 Framework for Material Circulation
- › 2.2 Identify Key Guidelines for Implementing Environmental Practices
- › 2.3 Analyze the Role of Leadership in Environmental Management
- › 2.4 Evaluate Case Studies on Successful ISO 14009 Applications
- › 2.5 Develop a Material Circulation Strategy for Your Organization
- › 2.6 Create an Action Plan for ISO 14009 Certification Compliance

• 3 Strategies for Implementing Environmental Practices — 6 classes

- › 3.1 Identify Key Environmental Challenges in Design
- › 3.2 Assess Current Practices and Their Environmental Impact
- › 3.3 Explore Innovative Material Circulation Strategies
- › 3.4 Develop a Framework for Implementing Environmental Practices
- › 3.5 Engage Stakeholders for Collaborative Environmental Solutions
- › 3.6 Evaluate and Adapt Environmental Strategies in Practice

• 4 Measuring and Evaluating Environmental Performance — 6 classes

- › 4.1 Analyze Key Performance Indicators for Environmental Impact
- › 4.2 Develop Methods for Data Collection in Environmental Performance
- › 4.3 Evaluate Current Environmental Practices Using Standard Metrics
- › 4.4 Compare Environmental Performance Against Industry Benchmarks
- › 4.5 Implement Strategies for Continuous Improvement in Environmental Performance
- › 4.6 Present Findings and Recommendations for Sustainable Practices

• 5 Driving Change: Leadership in Environmental Management — 6 classes

- › 5.1 Recognize the Importance of Environmental Leadership
- › 5.2 Identify Key Principles of ISO 14009
- › 5.3 Assess Current Environmental Practices in Organizations
- › 5.4 Develop Strategies for Material Circulation Enhancement
- › 5.5 Implement Leadership Approaches to Drive Environmental Change
- › 5.6 Evaluate the Impact of Leadership on Sustainable Development

• 1 Understanding Material Circulation Principles — 6 classes

- › 1.1 Define Material Circulation Concepts and Terminology
- › 1.2 Explain the Importance of Material Circulation in Sustainable Design
- › 1.3 Identify Key Principles of Material Circulation in Product Lifecycle
- › 1.4 Analyze Real-World Examples of Successful Material Circulation
- › 1.5 Explore Tools and Techniques for Implementing Material Circulation
- › 1.6 Develop a Strategy for Improving Material Circulation in a Design Project

• 2 Life Cycle Assessment and Environmental Impact — 6 classes

- › 2.1 Define Life Cycle Assessment and Its Importance in Environmental Impact
- › 2.2 Identify Stages of Life Cycle Assessment: From Raw Material to Disposal
- › 2.3 Analyze Environmental Impact Categories in Life Cycle Assessments
- › 2.4 Assess the Role of Material Circulation in Sustainable Design
- › 2.5 Evaluate Case Studies: Successful Applications of Life Cycle Assessment
- › 2.6 Develop an Action Plan for Implementing Life Cycle Assessment in Projects

• 3 Regulatory Frameworks and Standards in Material Circulation — 6 classes

- › 3.1 Explore Key Regulatory Frameworks Impacting Material Circulation
- › 3.2 Identify International Standards for Sustainable Material Practices
- › 3.3 Analyze the Role of ISO Standards in Material Management
- › 3.4 Assess Compliance Requirements for Material Circulation
- › 3.5 Evaluate Case Studies on Effective Material Regulation Implementation
- › 3.6 Develop a Plan for Integrating Regulatory Standards into Design Processes

• 4 Sustainable Design Strategies for Material Efficiency — 6 classes

- › 4.1 Identify Key Concepts of Material Efficiency in Design
- › 4.2 Analyze the Life Cycle of Materials in Sustainable Design
- › 4.3 Evaluate the Impact of Material Choices on Environmental Sustainability
- › 4.4 Explore Innovative Strategies for Reducing Material Waste
- › 4.5 Apply Material Circulation Principles to Real-World Design Scenarios
- › 4.6 Develop a Sustainable Design Plan Incorporating Material Efficiency

• 5 Implementing Material Circulation in Organizational Practices — 6 classes

- › 5.1 Identify Key Principles of Material Circulation
- › 5.2 Evaluate Current Organizational Practices for Material Use
- › 5.3 Develop Strategies for Integrating Material Circulation
- › 5.4 Design a Material Flow Assessment Tool
- › 5.5 Implement Continuous Improvement Cycles in Material Practices
- › 5.6 Assess the Impact of Material Circulation Initiatives

• 1 Understanding Stakeholders in Environmental Management — 6 classes

- › 1.1 Identify Key Stakeholders in Environmental Management
- › 1.2 Analyze Stakeholder Interests and Influences
- › 1.3 Map Stakeholder Relationships and Dynamics
- › 1.4 Assess Impact of Stakeholders on Environmental Decisions
- › 1.5 Develop Strategies for Effective Stakeholder Communication
- › 1.6 Engage Stakeholders in Collaborative Environmental Solutions

• 2 Mapping and Analyzing Stakeholder Influence — 6 classes

- › 2.1 Identify Key Stakeholders in Material Circulation
- › 2.2 Map Stakeholder Interests and Concerns
- › 2.3 Analyze the Influence of Stakeholders on Design Decisions
- › 2.4 Prioritize Stakeholders Based on Impact and Interest
- › 2.5 Develop Strategies for Engaging Stakeholders Effectively
- › 2.6 Monitor and Evaluate Stakeholder Engagement Outcomes

• 3 Engagement Strategies for Diverse Stakeholders — 6 classes

- › 3.1 Identify Diverse Stakeholder Groups in Material Circulation
- › 3.2 Analyze Stakeholder Needs and Expectations for Engagement
- › 3.3 Develop Tailored Communication Strategies for Diverse Stakeholders
- › 3.4 Implement Collaborative Approaches to Stakeholder Engagement
- › 3.5 Evaluate the Effectiveness of Engagement Strategies
- › 3.6 Integrate Stakeholder Feedback into Continuous Improvement Processes

• 4 Facilitating Dialogue and Collaboration — 6 classes

- › 4.1 Identify Key Stakeholders for Effective Collaboration
- › 4.2 Analyze Stakeholder Interests and Concerns
- › 4.3 Develop Strategies for Engaging Diverse Stakeholders
- › 4.4 Facilitate Constructive Dialogue Among Stakeholders
- › 4.5 Utilize Tools for Collaborative Decision-Making
- › 4.6 Evaluate the Impact of Stakeholder Engagement Efforts

• 5 Monitoring and Evaluating Stakeholder Engagement Outcomes — 6 classes

- › 5.1 Define Key Metrics for Stakeholder Engagement Outcomes
- › 5.2 Develop a Framework for Monitoring Stakeholder Interactions
- › 5.3 Implement Tools and Techniques for Stakeholder Feedback Collection
- › 5.4 Analyze Stakeholder Feedback to Identify Trends and Insights
- › 5.5 Create Visual Reports to Communicate Stakeholder Engagement Results
- › 5.6 Formulate Strategies for Continuous Improvement of Stakeholder Engagement

• 1 Principles of Sustainable Design in Material Circulation — 6 classes

- › 1.1 Explore the Principles of Sustainable Design
- › 1.2 Analyze Material Circulation in Design Processes
- › 1.3 Assess Environmental Impact of Material Choices
- › 1.4 Identify Circular Economy Strategies in Design
- › 1.5 Develop Sustainable Material Selection Criteria
- › 1.6 Create a Sustainable Design Action Plan

• 2 Life Cycle Assessment and Material Flow Analysis — 6 classes

- › 2.1 Understand the Fundamentals of Life Cycle Assessment
- › 2.2 Identify Key Components of Material Flow Analysis
- › 2.3 Analyze Life Cycle Stages of Products
- › 2.4 Assess Environmental Impacts in Material Flow
- › 2.5 Evaluate Case Studies of Sustainable Design Approaches
- › 2.6 Implement Strategies for Improved Material Circulation

• 3 Circular Economy Frameworks in Design Development — 6 classes

- › 3.1 Understand the Principles of Circular Economy in Design
- › 3.2 Identify Key Components of Circular Economy Frameworks
- › 3.3 Analyze Case Studies of Successful Circular Design Practices
- › 3.4 Apply Circular Economy Concepts to Product Development
- › 3.5 Evaluate the Impact of Circular Design on Sustainability Metrics
- › 3.6 Develop a Circular Design Proposal for a Real-World Product

• 4 Sustainable Materials Selection and Resource Management — 6 classes

- › 4.1 Analyze the Life Cycle of Materials for Sustainable Design
- › 4.2 Evaluate Environmental Impact of Common Materials
- › 4.3 Identify Sustainable Material Alternatives for Design Projects
- › 4.4 Assess Resource Management Strategies in Sustainable Practices
- › 4.5 Develop a Sustainable Materials Selection Framework
- › 4.6 Apply Sustainable Design Principles in Real-World Scenarios

• 5 Innovative Strategies for Implementing Sustainable Practices — 6 classes

- › 5.1 Analyze Current Design Practices for Sustainability Gaps
- › 5.2 Explore Innovative Materials for Eco-Friendly Design
- › 5.3 Implement Circular Economy Principles in Product Development
- › 5.4 Evaluate Life Cycle Assessment Tools for Sustainable Design
- › 5.5 Develop Strategies for Stakeholder Engagement in Sustainability
- › 5.6 Create a Sustainable Design Action Plan for Your Project