

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 14006CIR — Guidelines for Eco-Design

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference ENV-CIR-14006CIR • ISO Environmental Sustainability

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AT A GLANCE

REFERENCE	ENV-CIR-14006CIR
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Assessment and Evaluation Techniques

5 chapters · 30 classes

45 marks

• 1 Introduction to Assessment Techniques in Eco-Design — 6 classes

› 1.1 Define Key Concepts in Eco-Design Assessment

› 1.2 Identify Sustainable Assessment Criteria for Products

› 1.3 Explore Quantitative vs. Qualitative Assessment Methods

› 1.4 Analyze Case Studies on Eco-Design Successes and Failures

› 1.5 Develop a Framework for Eco-Design Assessments

› 1.6 Create an Action Plan to Implement Eco-Design Assessments

• 2 Evaluating Eco-Design Strategies and Principles — 6 classes

› 2.1 Analyze Eco-Design Principles in Practice

› 2.2 Identify Key Performance Indicators for Eco-Design

› 2.3 Evaluate Life Cycle Assessment (LCA) Methodologies

› 2.4 Compare Success Metrics of Eco-Design Strategies

› 2.5 Assess Stakeholder Feedback on Eco-Design Implementations

› 2.6 Develop a Framework for Continuous Improvement in Eco-Design

• 3 Tools for Measuring Environmental Impact — 6 classes

› 3.1 Identify Key Environmental Impact Indicators

› 3.2 Analyze Life Cycle Assessment Tools

› 3.3 Evaluate Carbon Footprint Measurement Techniques

› 3.4 Utilize Eco-Design Assessment Frameworks

› 3.5 Implement Strategies for Data Collection and Analysis

› 3.6 Present Findings and Recommendations for Improvement

• 4 Integrating Stakeholder Feedback into Assessments — 6 classes

› 4.1 Identify Key Stakeholders for Effective Feedback

› 4.2 Analyze Stakeholder Needs and Expectations

› 4.3 Develop Structured Feedback Channels for Assessments

› 4.4 Collect and Organize Stakeholder Feedback Data

› 4.5 Evaluate Feedback for Integration into Assessment Criteria

› 4.6 Implement Changes Based on Stakeholder Feedback and Assess Outcomes

• 5 Advanced Evaluation Techniques and Case Studies — 6 classes

› 5.1 Analyze Contemporary Case Studies in Eco-Design

› 5.2 Evaluate the Effectiveness of Eco-Design Principles

› 5.3 Apply Advanced Evaluation Techniques to Project Scenarios

› 5.4 Compare Quantitative and Qualitative Assessment Methods

› 5.5 Develop a Comprehensive Evaluation Framework

› 5.6 Present Findings from Evaluation Techniques to Stakeholders

• 1 Understanding the Circular Economy: Principles and Benefits — 6 classes

- › 1.1 Define the Circular Economy: Key Principles and Concepts
- › 1.2 Explore the Differences Between Linear and Circular Economies
- › 1.3 Identify the Environmental Benefits of a Circular Economy
- › 1.4 Analyze Economic Impacts of Implementing Circular Practices
- › 1.5 Examine Social Benefits and Community Engagement in Circular Economies
- › 1.6 Develop a Simple Action Plan for Circular Economy Implementation

• 2 Eco-Design Frameworks: Tools and Practices — 6 classes

- › 2.1 Identify Key Eco-Design Principles for Circular Economy
- › 2.2 Analyze Existing Eco-Design Frameworks and Their Effectiveness
- › 2.3 Evaluate Tools for Assessing Environmental Impact in Design
- › 2.4 Implement Lifecycle Assessment Techniques in Eco-Design
- › 2.5 Develop Strategies for Integrating Circular Practices in Design
- › 2.6 Create a Practical Eco-Design Project Using Selected Tools

• 3 Materials Management in Circular Economy: Selection and Sourcing — 6 classes

- › 3.1 Identify Sustainable Materials for Circular Design
- › 3.2 Evaluate Sourcing Strategies for Eco-Friendly Procurement
- › 3.3 Analyze the Life Cycle of Materials in Circular Economy
- › 3.4 Develop Criteria for Selecting Key Suppliers in Eco-Design
- › 3.5 Implement Best Practices for Material Waste Reduction
- › 3.6 Create a Materials Management Plan Aligned with Circular Economy Principles

• 4 Lifecycle Assessment for Circular Economy Strategies — 6 classes

- › 4.1 Understand the Principles of Lifecycle Assessment
- › 4.2 Identify Key Stages in the Lifecycle of a Product
- › 4.3 Analyze Environmental Impacts at Each Lifecycle Stage
- › 4.4 Apply Lifecycle Assessment to Evaluate Product Design
- › 4.5 Compare Traditional vs. Circular Economy Approaches
- › 4.6 Develop a Lifecycle Assessment for a Circular Economy Product

• 5 Implementing Circular Economy Strategies: Challenges and Solutions — 6 classes

- › 5.1 Identify Key Challenges in Implementing Circular Economy Strategies
- › 5.2 Analyze Case Studies of Successful Circular Economy Implementation
- › 5.3 Explore Innovative Solutions to Overcome Circular Economy Barriers
- › 5.4 Assess the Role of Stakeholders in Circular Economy Transitions
- › 5.5 Develop Action Plans for Circular Economy Strategy Implementation
- › 5.6 Evaluate the Impact of Circular Economy Strategies on Business Practices

• 1 Understanding Eco-Design Principles — 6 classes

- › 1.1 Define Eco-Design and Its Importance in Sustainability
- › 1.2 Identify Key Principles of Eco-Design
- › 1.3 Explore the Life Cycle Assessment Process
- › 1.4 Analyze Case Studies of Successful Eco-Design Implementations
- › 1.5 Develop Eco-Design Strategies for Product Development
- › 1.6 Create a Mini Eco-Design Proposal for Real-World Application

• 2 Life Cycle Assessment in Eco-Design — 6 classes

- › 2.1 Define Life Cycle Assessment and its Importance in Eco-Design
- › 2.2 Identify the Phases of Life Cycle Assessment in Product Development
- › 2.3 Analyze Environmental Impact Categories in Life Cycle Assessment
- › 2.4 Conduct a Simple Life Cycle Assessment Case Study
- › 2.5 Evaluate Tools and Software for Performing Life Cycle Assessments
- › 2.6 Apply Life Cycle Assessment Findings to Improve Eco-Design Strategies

• 3 Material Selection and Resource Optimization — 6 classes

- › 3.1 Identify and Evaluate Sustainable Material Options
- › 3.2 Assess Life Cycle Impacts of Material Choices
- › 3.3 Explore Renewable vs. Non-Renewable Resources
- › 3.4 Implement Techniques for Material Resource Optimization
- › 3.5 Analyze Case Studies in Eco-Friendly Material Selection
- › 3.6 Develop a Sustainable Material Selection Strategy

• 4 User-Centered Design and Eco-Innovation — 6 classes

- › 4.1 Identify User Needs Through Empathy Mapping
- › 4.2 Analyze Eco-Design Constraints and Opportunities
- › 4.3 Explore Sustainable Materials for User-Centered Products
- › 4.4 Generate Eco-Innovation Ideas Through Brainstorming
- › 4.5 Prototype User-Centered Eco-Design Solutions
- › 4.6 Evaluate User Feedback to Enhance Eco-Design

• 5 Implementing Circular Economy Practices in Eco-Design — 6 classes

- › 5.1 Identify Key Principles of Eco-Design
- › 5.2 Assess the Role of Circular Economy in Eco-Design
- › 5.3 Analyze Case Studies of Successful Circular Economy Implementation
- › 5.4 Develop Strategies for Integrating Circular Practices in Design
- › 5.5 Evaluate Environmental Impacts of Product Lifecycle Choices
- › 5.6 Create a Circular Design Proposal for a Real-World Product

• 1 Understanding Eco-Design Principles and Circular Economy

Concepts — 6 classes

- › 1.1 Define Eco-Design and Its Importance
- › 1.2 Explore the Key Principles of Eco-Design
- › 1.3 Investigate the Concept of Circular Economy
- › 1.4 Analyze the Relationship Between Eco-Design and Circular Economy
- › 1.5 Identify Real-World Examples of Eco-Design Implementation
- › 1.6 Develop a Concept Proposal Using Eco-Design Principles

• 2 Identifying Environmental Impacts in Product Design — 6 classes

- › 2.1 Analyze Lifecycle Stages of Products
- › 2.2 Identify Potential Environmental Impacts
- › 2.3 Evaluate Materials for Eco-Friendliness
- › 2.4 Assess Design Processes for Sustainability
- › 2.5 Implement Strategies for Reducing Footprint
- › 2.6 Create an Eco-Design Action Plan

• 3 Integrating Eco-Design Strategies into Product Development — 6 classes

- › 3.1 Identify Key Principles of Eco-Design
- › 3.2 Assess Environmental Impacts of Product Lifecycle
- › 3.3 Develop Eco-Design Criteria for New Products
- › 3.4 Integrate Sustainable Materials into Design Process
- › 3.5 Create Prototypes Incorporating Eco-Design Features
- › 3.6 Evaluate Eco-Design Strategies through Case Studies

• 4 Tools and Techniques for Innovative Eco-Design — 6 classes

- › 4.1 Analyze Eco-Design Principles for Sustainable Solutions
- › 4.2 Identify Tools for Conducting Eco-Design Assessments
- › 4.3 Develop Innovative Concepts Using Eco-Design Mind Mapping
- › 4.4 Implement Life Cycle Assessment (LCA) Techniques in Design
- › 4.5 Evaluate Material Selection for Enhanced Sustainability
- › 4.6 Create a Prototype Incorporating Eco-Design Strategies

• 5 Implementing and Evaluating Eco-Design Solutions — 6 classes

- › 5.1 Define Key Principles of Eco-Design
- › 5.2 Assess Current Design Processes for Sustainability
- › 5.3 Identify Eco-Design Solutions for Innovative Projects
- › 5.4 Develop a Framework for Implementing Eco-Design Strategies
- › 5.5 Establish Metrics for Evaluating Eco-Design Effectiveness
- › 5.6 Present and Share Best Practices in Eco-Design Implementation

• 1 Understanding ISO 14006CIR: Fundamentals of Eco-Design — 6 classes

- › 1.1 Define Eco-Design Principles and Their Importance
- › 1.2 Explore Key Concepts of ISO 14006CIR
- › 1.3 Identify the Role of Stakeholders in Eco-Design
- › 1.4 Analyze the Environmental Impact of Product Life Cycles
- › 1.5 Implement Eco-Design Strategies in Practice
- › 1.6 Evaluate Case Studies of Successful Eco-Design Applications

• 2 Key Components of the ISO 14006CIR Framework — 6 classes

- › 2.1 Identify the Core Principles of Eco-Design in ISO 14006CIR
- › 2.2 Explore the Role of Stakeholder Engagement in Eco-Design
- › 2.3 Analyze Life Cycle Assessment as a Tool for Eco-Design
- › 2.4 Assess Environmental Impacts: Metrics and Measurement Techniques
- › 2.5 Develop Eco-Design Strategies for Product Development Processes
- › 2.6 Implement an Eco-Design Action Plan within an Organization

• 3 Integrating Eco-Design into Existing Systems — 6 classes

- › 3.1 Assess Current Systems for Eco-Design Compatibility
- › 3.2 Identify Key Eco-Design Principles and Their Impacts
- › 3.3 Develop an Integration Strategy for Eco-Design Practices
- › 3.4 Customize Existing Processes to Incorporate Eco-Design
- › 3.5 Implement Metrics for Evaluating Eco-Design Effectiveness
- › 3.6 Present Case Studies of Successful Eco-Design Integration

• 4 Measuring and Evaluating Eco-Design Impact — 6 classes

- › 4.1 Define Eco-Design and Its Importance in ISO Standards
- › 4.2 Identify Key Metrics for Measuring Eco-Design Impact
- › 4.3 Explore Tools and Techniques for Evaluating Eco-Design Effectiveness
- › 4.4 Analyze Case Studies of Successful Eco-Design Implementations
- › 4.5 Develop a Framework for Measuring Eco-Design Outcomes
- › 4.6 Present Findings and Recommendations for Future Eco-Design Strategies

• 5 Future Trends in Eco-Design and Circular Economy Compliance — 6 classes

- › 5.1 Explore the Principles of Eco-Design
- › 5.2 Identify Key Components of Circular Economy Compliance
- › 5.3 Analyze Future Trends Impacting Eco-Design Practices
- › 5.4 Evaluate Case Studies on Successful Eco-Design Implementation
- › 5.5 Develop Strategies for Integrating ISO 14006CIR Standards
- › 5.6 Create an Action Plan for Adopting Circular Economy Principles

• 1 Understanding Eco-Design Principles — 6 classes

- › 1.1 Define Eco-Design and Its Importance in Sustainability
- › 1.2 Explore Key Principles of Eco-Design
- › 1.3 Identify Stakeholders in Eco-Design Processes
- › 1.4 Assess Environmental Impact of Design Choices
- › 1.5 Analyze Case Studies of Successful Eco-Design Implementations
- › 1.6 Develop an Eco-Design Plan for a Product or Service

• 2 Integrating Circular Economy Concepts — 6 classes

- › 2.1 Define Circular Economy Principles and Their Importance
- › 2.2 Identify Key Sustainable Practices in Eco-Design
- › 2.3 Assess Current Product Lifecycles for Circularity
- › 2.4 Explore Innovative Materials for Sustainable Design
- › 2.5 Develop Strategies for Stakeholder Engagement in Eco-Design
- › 2.6 Create an Action Plan for Implementing Circular Economy Concepts

• 3 Frameworks for Implementing ISO 14006 Guidelines — 6 classes

- › 3.1 Analyze the Key Principles of ISO 14006 Guidelines
- › 3.2 Identify Stakeholders in Eco-Design Implementation
- › 3.3 Evaluate Current Practices Against ISO 14006 Standards
- › 3.4 Develop a Step-by-Step Action Plan for Eco-Design
- › 3.5 Measure the Impact of Eco-Design Initiatives
- › 3.6 Communicate Sustainability Strategies to Leadership

• 4 Leadership Strategies for Promoting Sustainability — 6 classes

- › 4.1 Define Eco-Design Principles and Their Importance in Leadership
- › 4.2 Identify Key Stakeholders in Sustainability Initiatives
- › 4.3 Develop Strategies for Effective Communication of Sustainability Goals
- › 4.4 Analyze Case Studies of Successful Sustainability Leadership
- › 4.5 Create an Action Plan for Implementing Eco-Design Strategies
- › 4.6 Evaluate the Impact of Leadership on Sustainability Culture in Organizations

• 5 Measuring and Communicating Sustainability Impact — 6 classes

- › 5.1 Define Key Sustainability Metrics for Impact Assessment
- › 5.2 Analyze Data Sources for Measuring Sustainability Outcomes
- › 5.3 Develop a Framework for Communicating Sustainability Impact
- › 5.4 Create Effective Sustainability Reports for Stakeholders
- › 5.5 Use Visual Tools to Communicate Sustainability Data
- › 5.6 Design a Sustainability Impact Presentation for Leadership