

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 29148 — Requirements Engineering

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference IIT-COD-29148 • ISO IT & Related Technologies

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	IIT-COD-29148
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1 Advanced Stakeholder Engagement 5 chapters · 30 classes 65 marks • 1 Identifying and Analyzing Stakeholders — 6 classes › 1.1 Define Stakeholder Characteristics and Roles › 1.2 Employ Techniques for Stakeholder Identification › 1.3 Analyze Stakeholder Influence and Interest Levels › 1.4 Map Stakeholders Using Analytical Tools › 1.5 Prioritize Stakeholders Based on Engagement Needs › 1.6 Develop a Stakeholder Engagement Action Plan • 2 Developing Stakeholder Communication Strategies — 6 classes › 2.1 Identify Key Stakeholders and Their Communication Needs › 2.2 Analyze Communication Styles and Preferences of Stakeholders › 2.3 Develop Tailored Communication Messages for Stakeholders › 2.4 Select Appropriate Communication Channels for Engagement › 2.5 Create a Stakeholder Communication Plan Template › 2.6 Evaluate and Adjust Communication Strategies Based on Feedback • 3 Facilitating Stakeholder Workshops and Meetings — 6 classes › 3.1 Identify Stakeholder Roles and Responsibilities › 3.2 Design Effective Workshop Agendas › 3.3 Employ Facilitation Techniques for Engagement › 3.4 Manage Group Dynamics During Meetings › 3.5 Capture and Prioritize Stakeholder Feedback › 3.6 Evaluate Workshop Outcomes and Follow-Up Actions • 4 Managing Stakeholder Conflicts and Expectations — 6 classes › 4.1 Identify Key Stakeholders and Their Interests › 4.2 Analyze Potential Conflicts Between Stakeholder Needs › 4.3 Develop Strategies for Conflict Resolution › 4.4 Communicate Effectively with Divergent Stakeholder Groups › 4.5 Establish Expectations Through a Stakeholder Agreement › 4.6 Evaluate Outcomes and Adjust Stakeholder Engagement Plans • 5 Evaluating Stakeholder Engagement Outcomes — 6 classes › 5.1 Identify Key Metrics for Evaluating Stakeholder Engagement Outcomes › 5.2 Analyze Stakeholder Feedback for Continuous Improvement › 5.3 Assess the Impact of Stakeholder Participation on Project Success › 5.4 Develop a Framework for Measuring Engagement Effectiveness › 5.5 Present Evaluation Findings to Stakeholders Effectively › 5.6 Implement Actionable Recommendations Based on Evaluation Results	
2 Evaluation and Quality Assurance 0 chapters 65 marks	
3 Leadership in Requirements Engineering 0 chapters 45 marks	

• 1 Introduction to Requirements Engineering Principles — 6 classes

- › 1.1 Define and Understand Requirements Engineering Concepts
- › 1.2 Identify Key Principles of Requirements Analysis
- › 1.3 Explore the Importance of Stakeholder Engagement in Requirements
- › 1.4 Analyze Different Types of Requirements: Functional vs Non-Functional
- › 1.5 Develop Techniques for Effective Requirements Specification
- › 1.6 Apply Requirements Engineering Principles to Case Studies

• 2 Types of Requirements: Functional and Non-Functional — 6 classes

- › 2.1 Define Functional Requirements and Their Importance
- › 2.2 Identify Different Types of Functional Requirements
- › 2.3 Explore Non-Functional Requirements and Their Role in Projects
- › 2.4 Distinguish Between Functional and Non-Functional Requirements
- › 2.5 Analyze Real-World Examples of Functional and Non-Functional Requirements
- › 2.6 Develop a Requirements Specification Document Incorporating Both Types

• 3 Techniques for Requirements Elicitation — 6 classes

- › 3.1 Identify Stakeholder Groups for Requirements Gathering
- › 3.2 Conduct Interviews for In-Depth Requirement Insights
- › 3.3 Facilitate Focus Groups to Generate Collaborative Requirements
- › 3.4 Apply Surveys and Questionnaires for Broader Feedback
- › 3.5 Utilize Prototyping to Validate Requirements Visually
- › 3.6 Analyze Findings and Document Requirements Effectively

• 4 Requirements Analysis and Validation Methods — 6 classes

- › 4.1 Explore Different Requirements Analysis Techniques
- › 4.2 Identify Stakeholder Needs through Interviews
- › 4.3 Develop Use Cases for Requirements Specification
- › 4.4 Validate Requirements with Prototyping Methods
- › 4.5 Employ Traceability Techniques for Requirements Management
- › 4.6 Assess the Impact of Changes on Requirements Through Review

• 5 Creating and Managing Requirements Specifications — 6 classes

- › 5.1 Define Requirements Specifications and Their Purpose
- › 5.2 Identify Stakeholders and Gather Requirement Inputs
- › 5.3 Develop Clear and Testable Requirement Statements
- › 5.4 Organize Requirements into Structured Categories
- › 5.5 Review and Validate Requirements with Stakeholders
- › 5.6 Manage Changes to Requirements Throughout the Project Lifecycle

• 1 Fundamentals of Requirements Engineering — 6 classes

- › 1.1 Define Key Concepts of Requirements Engineering
- › 1.2 Identify Stakeholders and Their Interests
- › 1.3 Analyze Requirements Elicitation Techniques
- › 1.4 Categorize Types of Requirements
- › 1.5 Develop Effective Requirement Specifications
- › 1.6 Evaluate Requirements for Quality and Feasibility

• 2 Stakeholder Engagement and Requirement Elicitation Techniques — 6 classes

- › 2.1 Identify Stakeholders and Their Roles
- › 2.2 Analyze Stakeholder Needs and Expectations
- › 2.3 Explore Different Elicitation Techniques
- › 2.4 Conduct Effective Interviews for Requirement Gathering
- › 2.5 Facilitate Workshops to Prioritize Requirements
- › 2.6 Validate Requirements with Stakeholders

• 3 Requirements Analysis and Specification — 6 classes

- › 3.1 Identify Stakeholder Needs Through Effective Interviews
- › 3.2 Analyze Collected Requirements for Clarity and Completeness
- › 3.3 Prioritize Requirements Using MoSCoW Technique
- › 3.4 Document Requirements Clearly in Specification Templates
- › 3.5 Validate Requirements with Stakeholders for Accuracy
- › 3.6 Manage Requirement Changes Using Version Control Strategies

• 4 Validation and Verification of Requirements — 6 classes

- › 4.1 Define Validation and Verification in Requirements Engineering
- › 4.2 Identify the Differences Between Validation and Verification
- › 4.3 Explore Techniques for Validating Requirements
- › 4.4 Investigate Methods for Verifying Requirements
- › 4.5 Apply Validation Techniques to Real-World Scenarios
- › 4.6 Develop a Verification Plan for Requirements Projects

• 5 Managing Requirements Change and Traceability — 6 classes

- › 5.1 Identify the Need for Requirements Change
- › 5.2 Analyze the Impact of Requirements Change
- › 5.3 Develop a Change Management Process
- › 5.4 Implement Traceability in Requirements Engineering
- › 5.5 Utilize Tools for Managing Requirements Change
- › 5.6 Evaluate the Effectiveness of Change Management Strategies

• 1 Foundations of Requirements Management — 6 classes

- › 1.1 Define the Key Concepts of Requirements Management
- › 1.2 Identify the Importance of Requirements in Project Success
- › 1.3 Explore the Roles and Responsibilities in Requirements Engineering
- › 1.4 Analyze the Lifecycle of Requirements Management
- › 1.5 Apply Tools and Techniques for Effective Requirements Gathering
- › 1.6 Evaluate Best Practices for Managing Requirements Changes

• 2 Stakeholder Identification and Engagement**• 3 Requirements Elicitation Techniques****• 4 Requirements Documentation and Specification****• 5 Requirements Validation and Management Practices**