

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 15504 — Process Assessment SPICE

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference IIT-COD-15504 • ISO IT & Related Technologies

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	IIT-COD-15504
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1 Data Analysis and Reporting 0 chapters65 marks	
2 Introduction to ISO 15504 5 chapters · 30 classes85 marks	• 1 Understanding ISO 15504: Fundamentals and Significance — 6 classes › 1.1 Define ISO 15504 and Its Purpose in Process Assessment › 1.2 Explore the Historical Development of ISO 15504 Standards › 1.3 Identify Key Components and Structure of ISO 15504 › 1.4 Discuss the Importance of Process Assessment in Quality Improvement › 1.5 Analyze the Role of SPI (Software Process Improvement) in ISO 15504 › 1.6 Apply Practical Examples of ISO 15504 in Real-world Scenarios • 2 Key Components and Structure of ISO 15504 — 6 classes › 2.1 Define the Key Concepts of ISO 15504 › 2.2 Explore the Structure of ISO 15504 Components › 2.3 Identify the Assessment Process in ISO 15504 › 2.4 Examine the Role of Leadership in Process Assessment › 2.5 Analyze the Benefits of Implementing ISO 15504 › 2.6 Apply the Key Components of ISO 15504 to Real-World Scenarios • 3 Process Assessment Framework: Principles and Methodologies — 6 classes › 3.1 Understand the Fundamentals of ISO 15504 › 3.2 Explore the Process Assessment Framework › 3.3 Identify Key Principles of Process Assessment › 3.4 Examine Methodologies for Process Assessment › 3.5 Analyze the Importance of Context in Assessments › 3.6 Apply the Process Assessment Framework in Real-World Scenarios • 4 Implementing ISO 15504 in Software Development: Best Practices — 6 classes › 4.1 Identify Key Principles of ISO 15504 for Software Development › 4.2 Analyze the Benefits of Implementing ISO 15504 in Projects › 4.3 Evaluate Current Processes Against ISO 15504 Framework › 4.4 Develop a Roadmap for Integrating ISO 15504 Standards › 4.5 Create a Continuous Improvement Plan Based on ISO 15504 › 4.6 Implement Best Practices for ISO 15504 Compliance in Teams • 5 Evaluating and Sustaining Process Improvement: Metrics and Tools — 6 classes › 5.1 Define Key Metrics for Process Improvement › 5.2 Identify Tools to Measure Process Effectiveness › 5.3 Analyze Data for Continuous Improvement Insights › 5.4 Implement Baseline Measurements for Comparison › 5.5 Develop Action Plans Based on Metric Analysis › 5.6 Sustain Improvement Efforts Through Regular Reviews

3

Leadership in Process Assessment

5 chapters · 6 classes

65 marks

• 1 Understanding ISO 15504 Framework for Process Assessment —

6 classes

- › 1.1 Define the ISO 15504 Framework and Its Purpose
- › 1.2 Identify Key Components of Process Assessment
- › 1.3 Explore the Structure of the SPICE Model
- › 1.4 Analyze the Benefits of Process Assessment for Organizations
- › 1.5 Examine Roles and Responsibilities in Process Assessment Leadership
- › 1.6 Apply the ISO 15504 Framework to Real-World Scenarios

• 2 Role of Leadership in Process Assessment

• 3 Key Competencies of Effective Process Assessment Leaders

• 4 Strategies for Managing Change in Process Assessment

• 5 Evaluating and Sustaining Leadership Impact in Process Assessment

4

Process Assessment Techniques

5 chapters · 30 classes

65 marks

• 1 Fundamentals of Process Assessment and ISO 15504 — 6 classes

- › 1.1 Define Key Concepts in Process Assessment
- › 1.2 Explore the ISO 15504 Framework
- › 1.3 Identify Benefits of Process Assessment
- › 1.4 Examine Process Assessment Models and Standards
- › 1.5 Analyze the Role of Leadership in Process Assessment
- › 1.6 Implement Basic Process Assessment Techniques

• 2 Understanding SPICE Framework Components — 6 classes

- › 2.1 Define the SPICE Framework and Its Purpose
- › 2.2 Identify Key Components of the SPICE Framework
- › 2.3 Explain Process Assessment in the Context of SPICE
- › 2.4 Analyze the Role of Process Attributes in SPICE
- › 2.5 Differentiate Between Process Capability Levels in SPICE
- › 2.6 Apply SPICE Assessment Techniques in a Case Study

• 3 Techniques for Evaluating Process Capabilities — 6 classes

- › 3.1 Identify Key Process Attributes for Capability Assessment
- › 3.2 Analyze Common Process Assessment Models and Frameworks
- › 3.3 Apply Qualitative Techniques for Evaluating Process Effectiveness
- › 3.4 Implement Quantitative Metrics for Process Capability Measurement
- › 3.5 Develop a Process Assessment Questionnaire for Data Gathering
- › 3.6 Synthesize Assessment Results into Actionable Improvement Plans

• 4 Conducting Effective Process Assessments — 6 classes

- › 4.1 Define the Objectives of a Process Assessment
- › 4.2 Identify Key Stakeholders in the Assessment Process
- › 4.3 Select Appropriate Process Assessment Models
- › 4.4 Develop an Assessment Plan and Schedule
- › 4.5 Conduct a Process Assessment: Techniques and Best Practices
- › 4.6 Analyze Findings and Prepare a Final Report

• 5 Interpreting Assessment Results and Continuous Improvement —

6 classes

- › 5.1 Analyze Assessment Results for Key Insights
- › 5.2 Identify Improvement Opportunities from Data
- › 5.3 Prioritize Changes Based on Assessment Findings
- › 5.4 Develop Action Plans for Continuous Improvement
- › 5.5 Monitor Implementation of Improvement Initiatives
- › 5.6 Evaluate the Effectiveness of Changes Made

• 1 Understanding ISO 15504: An Overview of Process Assessment

— 6 classes

- › 1.1 Define ISO 15504 and its Importance in Process Assessment
- › 1.2 Explore the Key Components of ISO 15504 Framework
- › 1.3 Identify the Stages of Process Assessment within ISO 15504
- › 1.4 Evaluate the Benefits of Implementing ISO 15504 in Organizations
- › 1.5 Analyze Case Studies of Successful ISO 15504 Implementations
- › 1.6 Develop an Action Plan for Process Improvement Using ISO 15504

• 2 Key Concepts in Process Improvement and SPICE Model — 6

classes

- › 2.1 Define Key Concepts in Process Improvement
- › 2.2 Explore the SPICE Model Framework
- › 2.3 Identify Benefits of Implementation in Organizations
- › 2.4 Analyze Different Levels of Process Maturity
- › 2.5 Develop a Process Assessment Plan using SPICE
- › 2.6 Evaluate Case Studies of Successful Process Improvements

• 3 Identifying Process Improvement Opportunities through Assessment — 6 classes

- › 3.1 Recognize Key Indicators of Process Inefficiencies
- › 3.2 Conduct a Structured Process Assessment
- › 3.3 Analyze Assessment Findings to Identify Gaps
- › 3.4 Prioritize Process Improvement Opportunities
- › 3.5 Develop Actionable Process Improvement Plans
- › 3.6 Implement and Monitor Process Improvements

• 4 Implementing Effective Process Improvement Strategies — 6

classes

- › 4.1 Identify Key Areas for Process Improvement
- › 4.2 Analyze Current Processes for Efficiency Gaps
- › 4.3 Develop a Strategic Plan for Process Enhancement
- › 4.4 Implement Process Improvement Techniques Effectively
- › 4.5 Measure and Evaluate the Impact of Changes
- › 4.6 Sustain Improvements Through Continuous Monitoring

• 5 Measuring Success: Metrics and Continuous Improvement — 6

classes

- › 5.1 Define Key Performance Indicators for Process Improvement
- › 5.2 Analyze Current Metrics for Effectiveness and Relevance
- › 5.3 Develop a Continuous Improvement Framework
- › 5.4 Implement Measurement Tools for Ongoing Assessment
- › 5.5 Review and Adjust Metrics Based on Feedback Loops
- › 5.6 Present Results and Communicate Success Stories