

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 9001ROD — Quality Management in Road Infrastructure

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference TR-ROD-9001ROD • ISO Transport

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	TR-ROD-9001ROD
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1 ISO 9001 Standards Application 5 chapters · 30 classes 85 marks • 1 Understanding ISO 9001 Standards in Road Infrastructure — 6 classes › 1.1 Define ISO 9001 Standards and Their Importance in Road Infrastructure › 1.2 Identify Key Principles of Quality Management in Road Infrastructure › 1.3 Analyze the Structure of ISO 9001 Standards and Their Components › 1.4 Evaluate the Role of Leadership in Implementing ISO 9001 Standards › 1.5 Develop Strategies for Ensuring Compliance with ISO 9001 in Road Projects › 1.6 Create an Action Plan for Continuous Improvement Using ISO 9001 Standards • 2 Implementing Quality Management Systems (QMS) in Road Projects — 6 classes › 2.1 Identify Key Components of a Quality Management System (QMS) in Road Projects › 2.2 Analyze Stakeholder Requirements and Expectations for QMS Implementation › 2.3 Develop Quality Objectives Aligned with ISO 9001 Standards for Road Projects › 2.4 Design Effective Documentation and Record-Keeping Systems for QMS › 2.5 Implement Monitoring and Measurement Techniques for QMS Performance › 2.6 Evaluate and Enhance QMS Continuous Improvement Practices in Road Infrastructure • 3 Monitoring and Measuring Quality Performance in Road Infrastructure — 6 classes › 3.1 Define Key Performance Indicators for Road Infrastructure Quality › 3.2 Develop a Quality Monitoring Framework for Road Projects › 3.3 Implement Data Collection Methods for Quality Measurement › 3.4 Analyze Quality Performance Data for Road Infrastructure › 3.5 Create Action Plans Based on Quality Performance Analysis › 3.6 Review and Improve Quality Measurement Processes Continuously • 4 Conducting Internal Audits and Management Reviews — 6 classes › 4.1 Understand the Purpose and Principles of Internal Audits › 4.2 Identify Key ISO 9001 Requirements for Auditing › 4.3 Prepare an Effective Internal Audit Checklist › 4.4 Conducting Internal Audits: Techniques and Best Practices › 4.5 Analyzing Internal Audit Findings and Reporting › 4.6 Facilitating Management Reviews for Continuous Improvement • 5 Continuous Improvement and the Role of Leadership in Quality Management — 6 classes › 5.1 Define Continuous Improvement in Quality Management › 5.2 Identify Leadership Roles in Fostering Continuous Improvement › 5.3 Explore Tools and Techniques for Continuous Improvement › 5.4 Analyze Case Studies of Successful Leadership in Quality Management › 5.5 Implement a Continuous Improvement Plan for Road Infrastructure › 5.6 Evaluate the Impact of Leadership on Quality Improvement Outcomes
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4

Project Quality Management

0 chapters

65 marks

5

Quality Assurance Techniques

5 chapters · 6 classes

65 marks**• 1 Fundamentals of Quality Assurance in Road Infrastructure** — 6 classes

- › 1.1 Identify Key Principles of Quality Assurance in Road Infrastructure
- › 1.2 Analyze the Role of ISO 9001 in Quality Management Systems
- › 1.3 Examine the Quality Assurance Framework for Road Projects
- › 1.4 Implement Effective Quality Control Measures in Road Construction
- › 1.5 Evaluate Quality Assurance Techniques and Tools for Infrastructure
- › 1.6 Develop a Quality Improvement Plan for Road Infrastructure Projects

• 2 ISO 9001 Standards and Requirements for Road Projects**• 3 Quality Assurance Techniques: Tools and Methods****• 4 Implementing Quality Management Systems in Road Projects****• 5 Continuous Improvement and Auditing in Road Infrastructure**

6

Quality Management Principles

5 chapters · 30 classes

85 marks**• 1 Introduction to Quality Management Principles in Road Infrastructure** — 6 classes

- › 1.1 Define Quality Management in Road Infrastructure
- › 1.2 Identify Key Quality Management Principles
- › 1.3 Explore the Importance of Quality in Road Projects
- › 1.4 Discuss the Role of Leadership in Quality Management
- › 1.5 Analyze Case Studies of Quality Management Failures
- › 1.6 Develop a Quality Management Action Plan for Road Projects

• 2 Understanding ISO 9001: The Framework for Quality Management Systems — 6 classes

- › 2.1 Explore the Key Principles of ISO 9001
- › 2.2 Identify the Components of a Quality Management System
- › 2.3 Analyze the Benefits of Implementing ISO 9001
- › 2.4 Evaluate the Process Approach in Quality Management
- › 2.5 Discuss Roles and Responsibilities in Quality Management Systems
- › 2.6 Apply ISO 9001 Principles to Road Infrastructure Projects

• 3 Key Quality Management Principles and Their Application — 6 classes

- › 3.1 Identify Key Quality Management Principles in Road Infrastructure
- › 3.2 Analyze the Impact of Quality Management on Project Success
- › 3.3 Evaluate Stakeholder Engagement in Quality Management Processes
- › 3.4 Apply Continuous Improvement Techniques in Road Projects
- › 3.5 Develop a Quality Management Strategy for Infrastructure Projects
- › 3.6 Implement Quality Auditing Practices in Road Infrastructure Management

• 4 Quality Assurance and Control Mechanisms in Road Projects — 6 classes

- › 4.1 Identify Key Quality Assurance Principles in Road Projects
- › 4.2 Analyze Quality Control Mechanisms Used in Infrastructure
- › 4.3 Evaluate the Role of Stakeholders in Quality Management
- › 4.4 Implement Quality Assurance Techniques for Road Projects
- › 4.5 Develop a Quality Control Plan for Road Infrastructure
- › 4.6 Review Case Studies on Effective Quality Management Practices

• 5 Continuous Improvement Strategies in Road Infrastructure Quality Management — 6 classes

- › 5.1 Identify Key Continuous Improvement Concepts in Road Infrastructure
- › 5.2 Analyze the Role of Leadership in Promoting Quality Improvement
- › 5.3 Employ Lean Techniques to Enhance Road Infrastructure Quality
- › 5.4 Develop Effective Measurement Metrics for Continuous Improvement
- › 5.5 Implement a Plan-Do-Check-Act Cycle in Road Quality Management
- › 5.6 Evaluate Case Studies of Successful Continuous Improvement Strategies