

# LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

## ISO 9001ROD — Quality Management in Road Infrastructure

*ISO Certification Programme*



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### 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

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