

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 9001STR — Quality Management in Structural Engineering

ISO Certification Programme



LAPT — London Academy of Professional Training

Address 85 Great Portland Street, W1W 7LT, London, United Kingdom

Email info@lapt.org

Telephone +44 7513 283044

Web lapt.org

Reference BLD-STR-9001STR • ISO Building & Construction

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AT A GLANCE

REFERENCE	BLD-STR-9001STR
AWARD	Certificate
ASSESSMENT	300 marks — 180 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

ISO BLD Foundation

7 chapters · 42 classes100 marks

• 4 Clause 4: Context of the Organisation — 6 classes

› Identifying the Context of the Organisation in Structural Engineering

› Determining Interested Parties in ISO 9001STR Compliance

› Defining Scope of Quality Management System in Engineering

› Establishing Boundaries for Quality Management in Structural Projects

› Analyzing the Impact of External Factors on Engineering Quality

› Aligning Organisational Objectives with ISO 9001STR Standards

• 5 Clause 5: Leadership — 6 classes

› Understanding Leadership Commitment in ISO 9001STR

› Defining Quality Management Policies for Structural Engineering

› Roles of Leadership in Quality Management Systems

› Establishing Responsibilities for Structural Quality Assurance

› Authority and Accountability in Structural Engineering Leadership

› Integrating Leadership Strategies into ISO 9001STR Compliance

• 6 Clause 6: Planning — 6 classes

› Identifying Risks and Opportunities in Structural Engineering

› Establishing Quality Objectives for Structural Projects

› Aligning Planning Processes with ISO 9001STR Standards

› Effective Risk Management Strategies in Structural Engineering

› Documenting and Communicating Quality Objectives

› Monitoring and Reviewing Objectives in Quality Management

• 7 Clause 7: Support — 6 classes

› Ensuring Adequate Resources for Quality Management in Structural Engineering

› Competence Development in Structural Engineering Quality Assurance

› Fostering Awareness of Quality Standards in Structural Engineering

› Effective Communication Strategies for Quality Management in Structural Engineering

› Documented Information Management for ISO 9001STR Compliance

› Integrating Support Mechanisms within Structural Engineering Quality Framework

• 8 Clause 8: Operation — 6 classes

› Operational Planning in Structural Engineering Projects

› Implementing Quality Controls in Structural Operations

› Risk Management in Structural Engineering Operations

› Resources Management for Quality in Structural Projects

› Monitoring and Measuring Performance in Operational Processes

› Continuous Improvement in Structural Engineering Operations

• 9 Clause 9: Performance Evaluation — 6 classes

› Understanding Performance Evaluation in ISO 9001STR

› Key Metrics for Monitoring Structural Engineering Quality

› Effective Measurement Techniques for Structural Quality Assessment

› Conducting Internal Audits in Structural Engineering Projects

› Analysing Data for Continuous Improvement in ISO 9001STR

› Management Review Processes for Quality Performance in Engineering

• 10 Clause 10: Improvement — 6 classes

› Understanding Nonconformity in Structural Engineering Quality Management

› Root Cause Analysis for Structural Engineering Nonconformities

› Implementing Corrective Actions in Structural Engineering Projects

› Strategies for Effective Continual Improvement in ISO 9001STR

› Monitoring and Reviewing Nonconformities in Structural Engineering

› Creating a Culture of Continuous Improvement in Structural Engineering

• **CH1 Understanding ISO 9001STR and Its Importance** — 6 classes

- › Introduction to ISO 9001STR and Its Framework
- › Significance of Quality Management in Structural Engineering
- › Key Principles and Terminology of ISO 9001STR
- › Overview of Compliance and Certification Processes
- › Understanding the Benefits of ISO 9001STR Implementation
- › Aligning ISO 9001STR with Organisational Goals

• **CH2 Conducting Effective Gap Analysis** — 6 classes

- › Defining Your Current Quality Management System
- › Identifying Gaps Against ISO 9001STR Requirements
- › Utilising Tools for Effective Gap Analysis
- › Engaging Stakeholders in the Gap Analysis Process
- › Preparing a Comprehensive Gap Analysis Report
- › Developing Action Plans to Address Identified Gaps

• **CH3 Project Planning for ISO 9001STR Implementation** — 6 classes

- › Establishing Objectives and Scope for Implementation
- › Creating a Detailed Project Timeline and Milestones
- › Resource Allocation for Successful Implementation
- › Assigning Roles and Responsibilities in the Project
- › Risk Management Strategies for ISO 9001STR Projects
- › Monitoring Progress and Adjusting Project Plans

• **CH4 Documentation and Internal Audit Methodology** — 6 classes

- › Creating Quality Management Documentation Templates
- › Policies, Procedures, and Work Instructions Explained
- › Establishing a Document Control System
- › Internal Audit Planning and Execution Techniques
- › Effective Reporting and Follow-Up on Audit Findings
- › Continuous Improvement Through Audit Feedback

• **CH5 Preparing for Certification and Management Review** — 6 classes

- › Understanding the Certification Process Steps
- › Preparing for the Certification Audit
- › Conducting Management Reviews Effectively
- › Evaluating Performance Metrics for Quality Management
- › Ensuring Continual Improvement Post-Certification
- › Strategies for Maintaining ISO 9001STR Compliance

• **CH1 Understanding ISO 9001STR in Structural Engineering** — 6 classes

- › Introduction to ISO 9001STR
- › Key Principles of Quality Management
- › Structural Engineering Context in ISO Standards
- › Compliance Requirements for Structural Projects
- › Benefits of ISO Certification in Construction
- › Case Studies of ISO 9001STR Implementation

• **CH2 Integrating ISO Skills within Industry Sectors** — 6 classes

- › Mapping ISO Skills to Structural Engineering
- › Identifying Sector-Specific ISO Applications
- › Cross-Sector Integration of Quality Management
- › Impact of ISO Standards on Project Deliverables
- › Recognizing ISO Proficiency in the Labor Market
- › Strategies for Skill Development and Training

• **CH3 Branding and Positioning as an ISO Consultant** — 6 classes

- › Building Your Consultant Brand Identity
- › Market Analysis for ISO Consulting Services
- › Effective Branding Strategies for Consultants
- › Creating Value Propositions for Clients
- › Networking and Relationship Building
- › Utilizing Digital Marketing for Consultant Visibility

• **CH4 LAPT Partner Framework and Client Relations** — 6 classes

- › Overview of the LAPT Partner Framework
- › Understanding Roles within the Framework
- › Establishing Client Partnerships
- › Delivering Advisory Services Effectively
- › Tools for Managing Client Relationships
- › Feedback Mechanisms for Continuous Improvement

• **CH5 Establishing a Consulting Practice in Structural Engineering** — 6 classes

- › Launching Your Consulting Business
- › Essential Services in Structural Consulting
- › Developing a Business Plan for Consultants
- › Financial Management for Consulting Practices
- › Legal Considerations and Compliance for Consultants
- › Sustaining Growth and Innovation in Consulting