

# LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

## ISO 10137 — Bases for Design Serviceability of Buildings Against Vibration

*ISO Certification Programme*



### LAPT — London Academy of Professional Training

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**Reference** BLD-STR-10137 • ISO Building & Construction

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AT A GLANCE

|               |                                                |
|---------------|------------------------------------------------|
| REFERENCE     | BLD-STR-10137                                  |
| AWARD         | Certificate                                    |
| ASSESSMENT    | 300 marks — 180 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 BLD Foundation</div></div> <div><div>7 chapters · 42 classes</div><div>100 marks</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <div><div>• 4 Clause 4: Context of the Organisation — 6 classes</div><div><div>› Identifying Stakeholders in Vibration Serviceability Design</div><div>› Defining the Organisation's Scope for ISO 10137</div><div>› Understanding the Context of Building Vibration Services</div><div>› Establishing Management System Boundaries in Vibration Design</div><div>› Analysing Interested Parties' Impact on Vibration Standards</div><div>› Developing a Framework for Vibration Serviceability Considerations</div></div></div> <div><div>• 5 Clause 5: Leadership — 6 classes</div><div><div>› Understanding Leadership Commitment in Vibration Design Serviceability</div><div>› Establishing Effective Policies for Building Vibration Management</div><div>› Defining Roles and Responsibilities in Vibration Leadership</div><div>› Authorities in ISO 10137 Compliance and Design Serviceability</div><div>› Integrating Leadership into Vibration Impact Mitigation Strategies</div><div>› Fostering a Culture of Excellence in Vibration Design Leadership</div></div></div> <div><div>• 6 Clause 6: Planning — 6 classes</div><div><div>› Identifying Risks and Opportunities in Vibration Serviceability</div><div>› Setting Objectives for Vibration Management in Buildings</div><div>› Integrating Vibration Considerations into Design Planning</div><div>› Assessing Impact of Environmental Factors on Vibration Serviceability</div><div>› Collaborative Approaches to Risk Mitigation in Building Design</div><div>› Monitoring and Reviewing Objectives in Vibration Serviceability Planning</div></div></div> <div><div>• 7 Clause 7: Support — 6 classes</div><div><div>› Understanding Resources for Vibration Design in Buildings</div><div>› Establishing Competence for ISO 10137 Compliance</div><div>› Raising Awareness on Vibration Impacts in Buildings</div><div>› Effective Communication Strategies in Vibration Design</div><div>› Documented Information Requirements for ISO 10137</div><div>› Integrating Stakeholder Input in Vibration Support Planning</div></div></div> | <div><div>• 8 Clause 8: Operation — 6 classes</div><div><div>› Understanding Operational Planning in ISO 10137</div><div>› Control Measures for Vibration Management in Buildings</div><div>› Implementing ISO 10137 Guidelines for Operational Control</div><div>› Best Practices for Serviceability in Operational Phases</div><div>› Monitoring Vibration Levels During Building Operation</div><div>› Evaluating Operational Compliance with ISO 10137 Standards</div></div></div> <div><div>• 9 Clause 9: Performance Evaluation — 6 classes</div><div><div>› Understanding Performance Evaluation in ISO 10137 Standards</div><div>› Monitoring Techniques for Vibration Serviceability Assessment</div><div>› Measurement Methods for Building Vibration Evaluation</div><div>› Analysing Data for Vibration Performance in Buildings</div><div>› Conducting Internal Audits for Vibration Compliance</div><div>› Management Review Processes in Vibration Serviceability Framework</div></div></div> <div><div>• 10 Clause 10: Improvement — 6 classes</div><div><div>› Identifying Nonconformities in Vibration Serviceability Design</div><div>› Corrective Actions for Vibration Nonconformities in Buildings</div><div>› Root Cause Analysis for Vibration Design Failures</div><div>› Implementing Continual Improvement in Vibration Standards</div><div>› Measuring Success: Indicators of Improvement in Serviceability</div><div>› Developing a Culture of Quality in Vibration Design Processes</div></div></div> |

### • CH1 Understanding ISO 10137 Principles and Objectives — 6 classes

- › Overview of ISO 10137 and its Importance
- › Key Concepts of Serviceability Against Vibration
- › Impact of Vibration on Building Performance
- › Compliance Requirements and Industry Standards
- › Risk Assessment in Vibration Design
- › Case Studies on Vibration-related Design Failures

### • CH2 Conducting Effective Gap Analysis for ISO Compliance — 6 classes

- › Introduction to Gap Analysis Methodology
- › Identifying Existing Data and Documentation
- › Evaluating Current Practices Against ISO Requirements
- › Tools for Systematic Gap Analysis
- › Developing Action Plans for Identified Gaps
- › Reporting Findings to Stakeholders Effectively

### • CH3 Project Planning for ISO 10137 Implementation — 6 classes

- › Setting Clear Objectives for Implementation
- › Creating a Detailed Project Timeline
- › Allocating Resources and Budgeting Effectively
- › Stakeholder Identification and Engagement Strategies
- › Risk Management in Implementation Planning
- › Monitoring Progress and Adaptation Techniques

### • CH4 Documentation and Record-Keeping Requirements — 6 classes

- › Essential Documentation for ISO 10137
- › Creating Templates for Standardised Reporting
- › Best Practices for Record-Keeping Systems
- › Ensuring Accessibility and Traceability of Documents
- › Maintaining Compliance During Documentation Review
- › Utilising Technology for Documentation Management

### • CH5 Preparing for Internal Audits and Certification — 6 classes

- › Internal Audit Methodology and Best Practices
- › Developing an Audit Plan for ISO Standards
- › Conducting Effective Internal Audit Interviews
- › Identifying Non-Conformities and Improvement Areas
- › Management Review Process and Implementation
- › Preparing for External Certification Audits

### • CH1 Understanding ISO 10137: Foundations and Concepts — 6 classes

- › Introduction to ISO 10137 Standards
- › Key Principles of Serviceability in Structures
- › Vibration Impact on Building Design
- › Interpreting ISO BLD-STR-10137 Documentation
- › ISO 10137: Relevance in Modern Construction
- › Case Studies on ISO Implementation

### • CH2 Positioning ISO Skills in Industry Sectors — 6 classes

- › Identifying ISO Skill Needs in Construction
- › Mapping ISO Standards to Industry Practices
- › The Role of ISO Certification in Building Projects
- › Sector-Specific Applications of ISO 10137
- › Competitive Advantage through ISO Expertise
- › Tailoring ISO Skills for Diverse Construction Roles

### • CH3 Branding as a Consultant in ISO Services — 6 classes

- › Building Your Consultant Brand Identity
- › Differentiating in the ISO Consulting Market
- › Communicating Value of ISO Expertise
- › Networking Strategies for ISO Consultants
- › Developing a Strong Online Presence
- › Effective Client Relationship Management

### • CH4 Client Advisory Services and ISO Integration — 6 classes

- › Delivering ISO-Based Advisory Services
- › Assessing Client Needs for ISO Compliance
- › Creating Tailored ISO Implementation Roadmaps
- › Educating Clients on Vibration Serviceability
- › Measuring Success in ISO Advisory Engagements
- › Preparing Clients for ISO Audits and Reviews

### • CH5 Building a Thriving Consulting Practice — 6 classes

- › Fundamentals of Starting a Consulting Business
- › Legal and Financial Considerations for Consultants
- › Marketing Your ISO Consulting Services
- › Developing a Robust Practices Framework
- › Sustaining Growth in a Competitive Landscape
- › Leveraging Feedback for Continuous Improvement