



ISO/IEC 17025 Lead Implementer Certificate Training Course

14 – 18 December 2026
Paris

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Ref: 103600605_78002 **Date:** 14 – 18 December 2026 **Location:** Paris **Fees:** 6500 Euro

Course Overview

The ISO/IEC 17025 Lead Implementer Certificate Training Course equips professionals with the expertise required to design, deploy, maintain, and enhance a robust Laboratory Management System across testing and calibration laboratories. Participants examine the core requirements of ISO/IEC 17025:2017, focusing on laboratory technical competence, impartiality, metrological traceability, and consistent operational quality. The syllabus translates international standard requirements into practical implementation steps, guiding candidates through gap analysis, documentation design, risk management, and internal assessment routines. This course is delivered by Agile Leaders Training Center.

Through real-world laboratory scenarios, attendees develop competencies in establishing quality policies, managing technical records, determining measurement uncertainty, validating test methods, and organizing interlaboratory comparisons. The training links implementation practices directly with accreditation preparation workflows, ensuring participants are equipped to coordinate cross-functional teams and establish disciplined compliance routines.

Target Audience

- Laboratory directors and managers responsible for laboratory management system implementation
- Quality managers and quality assurance specialists overseeing compliance and documentation
- Technical managers, laboratory supervisors, and calibration engineers
- Internal auditors and compliance officers preparing for accreditation assessments
- Consultants guiding testing and calibration laboratories through management system adoption

Targeted Organizational Departments

- Quality Assurance and Quality Control
- Testing and Analytical Operations
- Calibration and Metrology Services
- Technical Governance and Regulatory Compliance
- Research, Development, and Method Validation

Targeted Industries

- Testing and calibration laboratories
- Pharmaceutical, clinical, and diagnostic testing facilities
- Food safety, environmental, and agricultural laboratories
- Petrochemical, energy, and materials testing facilities
- Industrial manufacturing, automotive, and aerospace testing centers

Course Objectives

By the end of this course, participants will be able to:

- Interpret standard requirements and apply them to testing and calibration laboratories.
- Organize and execute a laboratory management system implementation roadmap.
- Perform baseline gap evaluations to detect operational deficiencies and compliance risks.
- Formulate structured documentation packages, including policies, standard procedures, and technical records.
- Establish controls for equipment calibration, environmental monitoring, and metrological traceability.
- Calculate measurement uncertainty budgets and execute sound method validation protocols.
- Execute internal audits and management reviews aligned with accreditation criteria.
- Align laboratory processes with Lead Implementer exam domains and accreditation audit expectations.

Training Methodology

The curriculum utilizes an application-driven instructional model that combines interactive lectures, clause-by-clause analysis, and practical laboratory exercises. Participants review real-world testing workflows, analyze nonconformity case studies, evaluate equipment registers, and build quality documentation. Daily reflection exercises reinforce key implementation concepts, clarify documentation boundaries, and strengthen readiness for professional certification evaluations.

Course Toolbox

- Laboratory implementation roadmap and milestone planning templates
- ISO/IEC 17025 baseline gap evaluation checklist
- Laboratory risk register template addressing impartiality and operational risks
- Competence evaluation matrix and analyst training log
- Equipment calibration and metrological traceability register
- Method validation summary worksheet and measurement uncertainty calculation guide
- Internal audit checklist and corrective action tracking register

Course Agenda

Day 1: Introduction to ISO/IEC 17025 and Initiation of a LMS

- Course structure, professional certification pathways, and core learning goals
- Scope, objectives, and normative foundations of ISO/IEC 17025:2017
- Core principles: technical competence, impartiality, confidentiality, and data integrity
- Regulatory structures and accreditation context for commercial and industrial laboratories
- Project initiation steps, resource allocation, and governance frameworks
- Conducting baseline gap assessments and identifying operational priorities
- Review session: synthesis of fundamental concepts and Day 1 core themes



Day 2: Planning the Implementation of a Laboratory Management System

- Securing leadership commitment and organizing implementation project teams
- Defining the Laboratory Management System boundary and scope of testing operations
- Drafting laboratory quality policies, impartiality declarations, and ethics statements
- Establishing roles, responsibilities, technical authorities, and organizational charts
- Designing document control, technical record retention, and data security frameworks
- Resource planning, competence requirements, and risk mitigation schedules
- Review session: evaluation of implementation plans and governance documentation

Day 3: Implementation of a Laboratory Management System

- Drafting and deploying standard operating procedures and technical work instructions
- Managing personnel qualification records, technical supervision, and competence monitoring
- Facilities management, environmental condition monitoring, and contamination control
- Equipment maintenance routines, calibration schedules, and metrological traceability
- Method verification, method validation protocols, and sampling control plans
- Evaluating measurement uncertainty, proficiency testing programs, and quality controls
- Review session: operational implementation controls and technical competence criteria

Day 4: LMS Monitoring, Measurement, Continual Improvement and Accreditation Preparation

- Monitoring laboratory performance, quality control trends, and process metrics
- Planning and conducting internal audits against ISO/IEC 17025 criteria
- Structuring formal management reviews, executive inputs, and strategic decisions
- Managing nonconforming work, complaints, root cause analysis, and corrective actions
- Driving continual improvement through risk reviews and operational key indicators
- Accreditation assessment readiness, pre-audit planning, and auditor liaison
- Review session: auditing mechanisms, corrective action routines, and audit readiness

Day 5: Certification Exam Preparation and Final Review

- Domain 1 review: principles, terminology, and laboratory quality concepts
- Domain 2 review: interpretation of management and technical requirements
- Domain 3 review: planning techniques and governance structuring for a LMS
- Domain 4 review: executing technical controls, traceability, and method validation
- Domains 5 and 6 review: internal auditing, evaluation, and continual improvement
- Domain 7 review: accreditation audit mechanics and implementer role expectations
- Review session: practice question analysis, core concept synthesis, and final review



Frequently Asked Questions

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

Participants should have a foundational understanding of laboratory operations, quality management concepts, or regulatory testing environments. Prior exposure to quality assurance, testing, calibration, or auditing is beneficial for those preparing for professional Lead Implementer evaluations, though professionals joining an implementation initiative for the first time will find the systematic structure accessible.

How long is each day's session, and is there a total number of hours required for the entire course?

Each day consists of structured instructional sessions lasting approximately four to five hours, including interactive discussions, practical exercises, and review intervals. Over the five days, the course encompasses approximately 20 to 25 instructional hours.

What is the difference between ISO/IEC 17025 accreditation and ISO 17025 Lead Implementer certification?

ISO/IEC 17025 accreditation is granted by an authoritative accreditation body to an organization, confirming that a specific testing or calibration laboratory operates competently and produces valid results. Lead Implementer certification is awarded to an individual professional, confirming their personal capability to design, establish, manage, and audit a Laboratory Management System in conformance with the standard.

How This Course Compares

While many standard training offerings focus strictly on theoretical clause interpretation, this programme bridges regulatory theory and operational practice. Participants gain hands-on experience in drafting traceability registers, setting up uncertainty calculation frameworks, structuring risk evaluations, and preparing laboratory teams for formal accreditation assessments.