



ISO/IEC 17025 Lead Implementer Certificate Training Course

02 - 06 Nov 2026
Istanbul



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Ref.: 103600605_78003 **Date:** 02 - 06 Nov 2026 **Location:** Istanbul **Fees:** 6000 **Euro**

Course Overview:

The ISO/IEC 17025 Lead Implementer Certificate is a practical corporate training course designed to prepare professionals to implement, manage, monitor, and improve a Laboratory Management System LMS based on ISO/IEC 17025. This ISO/IEC 17025 Lead Implementer Training connects the PECB ISO/IEC 17025 Lead Implementer exam domains with real laboratory implementation practices, including ISO 17025 Gap Analysis Training, ISO 17025 Documentation Training, Laboratory Risk Management Training, Laboratory Quality Assurance Training, and ISO 17025 Accreditation Preparation. Based on the PECB course agenda and candidate handbook, the program follows a five-day structure covering LMS initiation, planning, implementation, monitoring, continual improvement, and certification exam preparation.

The course also draws on ISO/IEC 17025 implementation PDFs and practical laboratory compliance resources that explain competence, impartiality, confidentiality, metrological traceability, measurement uncertainty, method validation, proficiency testing, document control, internal audits, and management review. Through this ISO 17025 Lead Implementer Course, participants gain the knowledge required to support testing and calibration laboratories, improve technical competence, and prepare for laboratory accreditation and ISO 17025 Lead Implementer Certification Exam Preparation.

Target Audience:

- Laboratory Managers responsible for ISO/IEC 17025 Laboratory Management System implementation
- Quality Managers overseeing laboratory quality management and compliance
- Technical Managers and Technical Supervisors in testing and calibration laboratories
- Laboratory Technicians involved in testing, calibration, validation, and reporting
- Compliance Officers responsible for laboratory accreditation requirements
- Internal Auditors preparing for ISO 17025 Internal Audit Training
- Consultants supporting ISO/IEC 17025 Implementation Course projects
- Project Managers leading LMS Implementation Training initiatives
- Engineers and Metrology Specialists responsible for equipment and traceability
- Professionals preparing for PECB ISO/IEC 17025 Lead Implementer certification



Targeted Organizational Departments:

- Quality Assurance and Quality Control departments seeking Laboratory Quality Management Training
- Laboratory Operations departments managing testing and calibration workflows
- Calibration and Metrology departments responsible for Metrological Traceability Training
- Compliance and Accreditation departments preparing for ISO 17025 Accreditation Training
- Technical Services departments involved in Method Validation Training and measurement controls
- Research and Development departments operating regulated or accredited laboratories
- Documentation and Records Management teams supporting ISO 17025 Documentation Training
- Internal Audit departments conducting ISO 17025 Internal Audit Training
- Risk and Governance departments supporting Laboratory Risk Management Training
- Training and Competency departments managing Laboratory Competence Training

Targeted Industries:

- Testing and calibration laboratories
- Healthcare, medical, and diagnostic laboratories
- Pharmaceutical and biotechnology organizations
- Food testing and agricultural laboratories
- Oil, gas, petrochemical, and chemical testing laboratories
- Environmental testing and water analysis laboratories
- Manufacturing, engineering, and industrial quality laboratories
- Construction materials and civil engineering testing laboratories
- Aerospace, defense, and automotive testing facilities
- Academic, research, and government laboratories
- Inspection, product certification, and conformity assessment bodies
- Metrology, instrumentation, and calibration service providers

Course Offerings:

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

- Interpret ISO/IEC 17025 requirements and apply them within testing and calibration laboratories
- Plan and initiate an ISO/IEC 17025 Laboratory Management System implementation project
- Conduct ISO 17025 Gap Analysis Training activities to identify compliance gaps
- Define LMS scope, laboratory policies, roles, responsibilities, and documentation needs
- Develop practical ISO 17025 Documentation Training outputs, including procedures, records, and checklists
- Implement controls for personnel competence, equipment, facilities, methods, traceability, and reporting
- Apply Laboratory Risk Management Training principles to impartiality, confidentiality, technical operations, and process control
- Strengthen Laboratory Technical Competence Training through method validation, measurement uncertainty, and proficiency testing
- Prepare laboratories for ISO 17025 Accreditation Preparation through internal audit, management review, corrective action, and continual improvement
- Review the PECB ISO/IEC 17025 Lead Implementer exam domains and prepare for the certification exam

Training Methodology:

The ISO/IEC 17025 Lead Implementer Certificate uses a practical, exam-oriented, and implementation-focused methodology. The course combines instructor-led explanation, clause-based interpretation, case studies, group exercises, and guided exam preparation. Participants explore ISO/IEC 17025:2017 requirements through real laboratory scenarios, including testing workflows, calibration controls, competence records, equipment files, document control, method validation, measurement uncertainty, proficiency testing, and reporting of results.

The methodology follows the PECB ISO/IEC 17025 Lead Implementer Training structure, linking each day to exam domains such as LMS principles, LMS planning, implementation, performance evaluation, continual improvement, and accreditation preparation. Participants work through ISO 17025 Gap Analysis Training exercises, risk-based thinking scenarios, internal audit examples, nonconformity cases, corrective action reviews, and accreditation readiness discussions.

Group work is used to analyze laboratory processes, define responsibilities, build implementation plans, and review sample documentation. Interactive sessions help participants translate Laboratory Management System Training concepts into practical workplace actions. Feedback sessions are included at the end of each day to reinforce ISO 17025 Lead Implementer Exam Preparation and clarify areas that commonly confuse participants, such as the difference between laboratory accreditation, certification, competence assessment, and management system implementation.

Course Toolbox:

Note: tools are not provided as physical or software deliverables; the course provides insights, examples, templates, and references to tools relevant to ISO/IEC 17025 Lead Implementer implementation.

- ISO/IEC 17025 Lead Implementer exam domain reference
- LMS implementation roadmap example
- ISO 17025 gap analysis checklist example
- Laboratory process mapping example
- Laboratory policy and procedure structure example
- Competence matrix and training record example
- Equipment register and calibration status example
- Metrological traceability review example
- Measurement uncertainty discussion guide
- Method validation and verification checklist example
- Proficiency testing and interlaboratory comparison review example
- Risk and opportunity register example for laboratories
- Nonconforming work and corrective action example
- Internal audit checklist example
- Management review agenda example
- Accreditation readiness checklist example
- Exam preparation review questions aligned with PECB ISO/IEC 17025 Lead Implementer domains

Course Agenda:

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

- **Topic 1:** ISO/IEC 17025 Lead Implementer course objectives, structure, and exam pathway
- **Topic 2:** ISO/IEC 17025:2017 scope, purpose, and laboratory accreditation context
- **Topic 3:** Key LMS principles: competence, impartiality, confidentiality, and consistency
- **Topic 4:** Testing and calibration laboratory requirements and regulatory expectations
- **Topic 5:** Initiating the LMS implementation project and defining implementation priorities
- **Topic 6:** Existing system review, ISO 17025 gap analysis, and accreditation readiness
- **Reflection & Review:** Review ISO/IEC 17025 principles, LMS concepts, and Day 1 exam links



Day 2: Planning the Implementation of a Laboratory Management System

- **Topic 1:** Leadership approval, LMS project governance, and implementation responsibilities
- **Topic 2:** Defining LMS scope for testing and calibration laboratory accreditation
- **Topic 3:** Developing laboratory policies for quality, impartiality, and confidentiality
- **Topic 4:** Establishing organizational structure, roles, responsibilities, and authorities
- **Topic 5:** Planning document control, record control, and ISO 17025 documentation
- **Topic 6:** Planning resources, competence needs, risks, opportunities, and timelines
- **Reflection & Review:** Review LMS planning outputs and PECB Lead Implementer exam domains

Day 3: Implementation of a Laboratory Management System

- **Topic 1:** Implementing LMS procedures, SOPs, technical controls, and work instructions
- **Topic 2:** Managing personnel competence, training records, facilities, and environmental conditions
- **Topic 3:** Equipment control, calibration status, maintenance, and metrological traceability
- **Topic 4:** Method selection, method validation, verification, sampling, and item handling
- **Topic 5:** Measurement uncertainty, proficiency testing, and validity of laboratory results
- **Topic 6:** Contract review, customer management, reporting, complaints, and nonconforming work
- **Reflection & Review:** Review LMS implementation practices and technical competence requirements

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

- **Topic 1:** Monitoring, measurement, analysis, and evaluation of LMS performance
- **Topic 2:** ISO 17025 internal audit planning, audit evidence, findings, and reporting
- **Topic 3:** Management review inputs, outputs, decisions, and improvement actions
- **Topic 4:** Nonconformity control, root cause analysis, and corrective action management
- **Topic 5:** Continual improvement, risk updates, KPIs, and laboratory quality performance
- **Topic 6:** Accreditation preparation, assessment readiness, and implementer competence review
- **Reflection & Review:** Review monitoring, improvement, and accreditation preparation requirements



Day 5: Certification Exam Preparation and Final Review

- **Topic 1:** Domain 1 review: LMS principles, concepts, terminology, and ISO/IEC 17025 fundamentals
- **Topic 2:** Domain 2 review: Laboratory Management System and ISO/IEC 17025 requirements
- **Topic 3:** Domain 3 review: Planning a LMS based on ISO/IEC 17025
- **Topic 4:** Domain 4 review: Implementing a management system based on ISO/IEC 17025
- **Topic 5:** Domains 5 and 6 review: performance evaluation, monitoring, and continual improvement
- **Topic 6:** Domain 7 review: preparing for accreditation and final exam readiness
- **Reflection & Review:** Final exam preparation, key concept review, and clarification of common questions

FAQ:

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

Participants should ideally have basic knowledge of ISO/IEC 17025, laboratory operations, quality management, testing, calibration, compliance, or accreditation practices. Prior experience in a laboratory, quality, technical, audit, or compliance role is helpful, especially for professionals preparing for the PECB ISO/IEC 17025 Lead Implementer exam. However, the course is also suitable for professionals joining an LMS implementation team who need structured ISO 17025 Lead Implementer Training.

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

Each day's session is generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans five days, approximately 20-25 hours of instruction.

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

ISO/IEC 17025 accreditation applies to laboratories and confirms their technical competence, impartiality, and ability to produce reliable testing or calibration results. ISO 17025 Lead Implementer Certification applies to individuals and demonstrates that the professional understands how to plan, implement, manage, monitor, and improve a Laboratory Management System based on ISO/IEC 17025. The course prepares participants to support laboratory accreditation projects, but the certificate itself is for the individual, not the laboratory.

How This Course is Different from Other ISO/IEC 17025 Lead Implementer Certificate Courses:

The ISO/IEC 17025 Lead Implementer Certificate stands out because it combines exam preparation with practical LMS implementation skills for real laboratory environments. Many ISO 17025 Lead Implementer Course programs focus mainly on theory or clause explanation, but this course connects the PECB ISO/IEC 17025 Lead Implementer exam domains with workplace application, accreditation readiness, and laboratory technical competence.

Participants do not only review the standard; they learn how to initiate an LMS project, define laboratory scope, conduct ISO 17025 Gap Analysis Training, design policies and procedures, manage competence records, control equipment, apply Metrological Traceability Training, understand Measurement Uncertainty Training, support Method Validation Training, and prepare for internal audits and accreditation assessments.

The course is also built around recognized PDF references and implementation resources, including the PECB course brochure, PECB candidate handbook, ISO/IEC 17025 implementation guides, and practical compliance materials. This makes the training useful for both certification candidates and professionals responsible for real laboratory management system implementation. Its value lies in combining ISO 17025 Lead Implementer Exam Prep with practical accreditation preparation for testing and calibration laboratories.



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