ISO/IEC 17025 Laboratory Management System Certification Training Course

8 – 12 February 2027
Addis Ababa

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ISO/IEC 17025 Laboratory Management System Certification Training Course

Ref: 103600270_225104 **Date:** 8 – 12 February 2027 **Location:** Addis Ababa **Fees:** 6000 Euro

Course Overview

The course provides professionals with essential skills to implement, manage, and assess laboratory systems per ISO/IEC 17025 standards. Participants will explore key aspects of laboratory accreditation, compliance, and quality assurance to optimize operations in testing and calibration laboratories.

This course covers ISO 17025 certification requirements, laboratory quality management, and compliance strategies. Whether pursuing ISO/IEC 17025 Foundation Training, Lead Implementer Training, or Lead Assessor Certification, participants gain the expertise needed for global accreditation.

Target Audience

- Laboratory Managers
- Quality Assurance Professionals
- Calibration and Testing Technicians
- ISO/IEC 17025 Auditors
- Compliance Officers
- Regulatory Affairs Professionals
- Research and Development Professionals
- Certification and Accreditation Consultants

Targeted Organizational Departments

- Quality Assurance and Compliance
- Laboratory Management and Operations
- Research and Development
- Regulatory Affairs
- Calibration and Testing Units
- Internal Audit Teams

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Targeted Industries

- Pharmaceuticals and Biotechnology
- Healthcare and Medical Laboratories
- Environmental Testing
- Food and Beverage Industry
- Chemical and Petrochemical Industry
- Electrical and Mechanical Calibration Laboratories
- Construction and Materials Testing
- Automotive and Aerospace Testing Laboratories

Course Offerings

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

- Understand ISO/IEC 17025 certification requirements and implementation strategies.
- Implement an effective laboratory management system training program.
- Conduct ISO 17025 compliance training for laboratory staff.
- Master laboratory accreditation processes and regulatory compliance.
- Gain expertise in ISO 17025 lead auditor training.
- Conduct internal audits for laboratory quality assurance.
- Understand ISO 17025 testing laboratory training methodologies.
- Improve laboratory calibration and proficiency testing processes.
- Lead and manage ISO 17025 accreditation training courses for professionals.

Training Methodology

- Instructor-led training sessions covering key ISO/IEC 17025 training concepts.
- Case studies highlighting real-world laboratory accreditation challenges.
- Interactive group discussions to reinforce ISO 17025 compliance strategies.
- Hands-on workshops covering laboratory quality management practices.
- Mock audits and assessments for practical implementation of ISO 17025 auditor training.
- Online ISO 17025 certification modules for flexible learning.

Course Toolbox

- ISO/IEC 17025 training manuals and guides
- Case studies and real-world examples
- ISO 17025 certification process checklists
- Laboratory compliance and quality management templates
- Access to an online resource library with training videos
- Sample ISO 17025 audit reports and compliance documents

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Course Agenda

Day 1: Introduction to ISO/IEC 17025 and Laboratory Management Systems

- **Topic 1:** Overview of ISO/IEC 17025 and its Importance
- **Topic 2:** Key Principles of Laboratory Accreditation
- **Topic 3:** Understanding Laboratory Quality Management Systems
- **Topic 4:** Compliance Requirements and Regulatory Framework
- **Topic 5:** Documentation and Record-Keeping Essentials
- **Topic 6:** Roles and Responsibilities in Laboratory Management
- **Reflection & Review:** Key Takeaways and Discussion

Day 2: ISO/IEC 17025 Requirements and Implementation Strategies

- **Topic 1:** Understanding Management System Requirements
- **Topic 2:** Technical Requirements for Laboratories
- **Topic 3:** Risk-Based Thinking in ISO/IEC 17025
- **Topic 4:** Implementing a Quality Culture in Laboratories
- **Topic 5:** Preparing for ISO/IEC 17025 Certification
- **Topic 6:** Internal Auditing and Continuous Improvement
- **Reflection & Review:** Best Practices and Case Studies

Day 3: Laboratory Accreditation Process and Auditing Techniques

- **Topic 1:** Steps in the ISO/IEC 17025 Accreditation Process
- **Topic 2:** Proficiency Testing and Calibration Methods
- **Topic 3:** Conducting a Gap Analysis for Compliance
- **Topic 4:** Effective Audit Planning and Execution
- **Topic 5:** Common Non-Conformities and How to Address Them
- **Topic 6:** Root Cause Analysis and Corrective Actions
- **Reflection & Review:** Interactive Q&A Session

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Day 4: Quality Assurance and Laboratory Best Practices

- **Topic 1:** Developing a Strong Quality Assurance Program
- **Topic 2:** Data Integrity and Laboratory Information Management Systems
- **Topic 3:** Personnel Competency and Training Requirements
- **Topic 4:** Equipment Calibration and Maintenance
- **Topic 5:** Test Methods Validation and Measurement Uncertainty
- **Topic 6:** Customer Satisfaction and Service Excellence
- **Reflection & Review:** Lessons Learned and Best Practices

Day 5: Final Assessment and Continuous Improvement

- **Topic 1:** Conducting Effective Management Reviews
- **Topic 2:** Maintaining Compliance Post-Certification
- **Topic 3:** Handling Complaints and Implementing Corrective Actions
- **Topic 4:** Future Trends and Advancements in ISO/IEC 17025
- **Topic 5:** Final Case Study and Practical Application
- **Topic 6:** Certification Exam Preparation and Next Steps
- **Reflection & Review:** Course Recap and Action Plan

FAQ

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

Participants should have a basic understanding of laboratory processes, quality management systems, or regulatory compliance. However, no prior certification is required for entry-level courses.

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

Each session is structured to last approximately 4-5 hours per day, totaling around 20-25 hours over one week.

- ### What are the benefits of obtaining an ISO/IEC 17025 certification?

Achieving ISO/IEC 17025 certification enhances laboratory credibility, improves testing accuracy, increases business opportunities, and ensures compliance with international regulatory standards.

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How This Course is Different from Other ISO/IEC 17025 Courses

Our ISO/IEC 17025 Laboratory Management System Certification Training Course offers a unique blend of ISO 17025 auditor training, lead implementer techniques, and practical proficiency testing.
Participants will engage in real-world case studies, hands-on workshops, and interactive modules, gaining essential insights into ISO 17025 accreditation, laboratory compliance, and quality control.
With online training options, personalized mentorship, and an internationally recognized certification, this program is ideal for professionals looking to enhance their careers in laboratory management, auditing, and accreditation.