

# ISO/IEC 17025:2017 IMPLEMENTATION COURSE

**23<sup>rd</sup> - 27<sup>th</sup>  
FEBRUARY 2026**



## Course overview

This 5-Day ISO/IEC 17025:2017 Implementation Course provides a practical understanding of the ISO/IEC 17025:2017 (Third Edition) requirements and their application in testing and calibration laboratories. The training equips participants with the essential knowledge and tools to establish, implement, and maintain a competent and compliant laboratory management system. Participants will review the standard's key clauses—including impartiality, confidentiality, resources, processes, and management system requirements—while receiving hands-on guidance on documentation, risk-based thinking, method validation/verification, measurement uncertainty, internal audits, corrective actions, and continual improvement. Through real-case examples, group exercises, and implementation templates, participants gain confidence in translating requirements into practical laboratory processes and preparing their organizations for accreditation and ongoing compliance.

## Learning Outcomes:

To equip participants with advanced, practical competencies required to implement and maintain a robust management and technical system aligned with the ISO/IEC 17025:2017 (Third Edition). The program emphasizes risk-based thinking, process approach, competency requirements, validation, measurement uncertainty, and continual improvement practices relevant to modern laboratory operations.

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## Target Audience:

This course is ideal for laboratory managers, quality managers, technical staff, auditors, and individuals responsible for establishing, maintaining, or improving a laboratory management system in line with international best practices.

Day 1	23-02-26	EVENTS
09:00 – 10:00 am		<b>Orientation and Climate Setting.</b>
10:00 – 10:30 am		<b>Introduction, Framework, and Context of ISO/IEC 17025:2017</b> <b>Opening Session</b> <ul style="list-style-type: none"> <li>Welcome and course overview</li> <li>Participant expectations &amp; pre-assessment</li> <li>Structure of the ISO/IEC 17025:2017 standard (Third Edition)</li> </ul>
10:30 – 11:00 am		<b>TEA- BREAK</b>
11:00 – 12:30 p.m		<b>Foundation Concepts</b> <ul style="list-style-type: none"> <li>Purpose, scope, and application of ISO/IEC 17025</li> <li>Key changes introduced in the Third Edition</li> <li>Risk-based thinking and process-based approach</li> <li>Relationship with ISO 9001 and other standards</li> </ul>
12:30 – 14:00 p.m		<b>LUNCH - BREAK</b>
14:00 – 16:30 p.m		<b>Clause-by-Clause Understanding/Overview</b> <ul style="list-style-type: none"> <li>Clause 4: General requirements (impartiality, confidentiality) &amp; Clause 5: Structural requirements</li> <li>Identifying risks to impartiality in laboratory operations</li> <li>Mapping laboratory structure to ISO/IEC 17025 requirements</li> </ul>

Day 2	24-02-26	EVENTS
09:00 – 10:30 am	<b>Resource Requirements &amp; Process Controls</b> <b>Clause 6: Resource Requirements</b> <ul style="list-style-type: none"> <li>Personnel competence, authorization, and training programs</li> <li>Facilities, environmental conditions/controls &amp; Traceability of measurements</li> <li>Equipment selection, calibration, maintenance, and metrological traceability according to Third Edition changes</li> <li>Purchasing services &amp; external providers</li> <li>External calibration, reference materials, and supplier evaluation and updated expectations regarding equipment and reference standard management from the Third Edition</li> </ul>	
10:30 – 11:00 am	<b>TEA- BREAK</b>	
11:00 – 12:30 p.m	<b>Clause 7 (Part 1): Process Requirements</b> <ul style="list-style-type: none"> <li>Review of requests, tenders &amp; contracts</li> <li>Method selection, validation, and verification</li> <li>Sampling requirements, Handling of test and calibration items</li> </ul>	
12:30 – 14:00 p.m	<b>LUNCH - BREAK</b>	
14:00 – 16:30 p.m	<ul style="list-style-type: none"> <li>Competence matrix development, Equipment calibration/verification planning</li> <li>Prepare a draft equipment management program &amp; designing a competency qualification checklist for analysts</li> </ul>	

Day 3	25-02-26	EVENTS
09:00 – 10:30 am	<b>Technical Processes, Quality Control &amp; Reporting Results</b> <b>Clause 7 (Part 2): Technical and Process Implementation</b> <ul style="list-style-type: none"> <li>Technical records</li> <li>Measurement uncertainty evaluation</li> <li>Ensuring valid results (quality control, PT/ILC participation)</li> <li>Quality control and assurance of results:</li> <li>Reporting of results (test reports, calibration certificates)</li> </ul>	
10:30 – 11:00 am	<b>TEA- BREAK</b>	
11:00 – 12:30 p.m	<b>Evaluation of Measurement Uncertainty</b> <ul style="list-style-type: none"> <li>Principles of MU in testing and calibration &amp; Practical MU calculation demonstration</li> <li>Microbiology, molecular, chemical, and instrumental examples</li> </ul>	
12:30 – 14:00 p.m	<b>LUNCH - BREAK</b>	
14:00 – 15:30 p.m	<b>Ensuring Validity of Results</b> <ul style="list-style-type: none"> <li>Internal quality controls</li> <li>Use of CRMs, reference strains, blanks, duplicates</li> <li>Trend analysis and control charts</li> </ul>	

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Day 4	26-02-26	EVENTS
09:00 – 10:30 am	<b>Management System Requirements</b> <b>Clause 8: Management System Implementation Options</b> <ul style="list-style-type: none"> <li>Option A vs Option B (ISO 9001 alignment)</li> <li>Documentation structure: policies, procedures, SOPs, forms</li> <li>Document control &amp; record management</li> <li>Actions to address risks and opportunities (risk register updates)</li> </ul>	
10:30 – 11:00 am	<b>TEA- BREAK</b>	
11:00 – 12:30 p.m	<b>Internal Audits</b> <ul style="list-style-type: none"> <li>Audit principles (ISO 19011 guidance), Audit planning, conducting, reporting, and follow-up</li> <li>Managing audit findings and evidence collection</li> </ul>	
12:30 – 14:00 p.m	<b>LUNCH - BREAK</b>	
14:00 – 15:30 p.m	<b>Management Reviews</b> <ul style="list-style-type: none"> <li>Inputs, outputs of management reviews &amp; Continual improvement mechanisms</li> </ul>	

Day 5	26-02-26	EVENTS
09:00 – 10:30 am	<b>Implementation Planning, Accreditation Readiness &amp; Final Assessment</b> <b>Implementation Roadmap</b> <ul style="list-style-type: none"> <li>Building a laboratory implementation plan, Gap assessment and corrective action strategies</li> <li>Resource planning for ISO 17025 accreditation &amp; Communication with accreditation bodies</li> </ul>	
10:30 – 11:00 am	<b>TEA- BREAK</b>	
11:00 – 12:30 p.m	<b>Accreditation Assessments</b> <ul style="list-style-type: none"> <li>What assessors look for</li> <li>Handling nonconformities during an assessment</li> <li>Evidence presentation &amp; assessor interaction skills</li> </ul>	
12:30 – 14:00 p.m	<b>LUNCH - BREAK</b>	
14:00 – 15:00 p.m	<b>Integration &amp; Continual Improvement</b> <ul style="list-style-type: none"> <li>Laboratory practices and digitalization opportunities</li> <li>Risk-based quality management in daily operations &amp; Sustaining compliance post-accreditation</li> <li>Recap of the course, closing ceremony and issuance of certificates.</li> </ul>	

Deadline: 13<sup>th</sup> Feb 2026

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FEBRUARY 2026

Cost Kes. 125,000.00  
or USD 1,200.00  
exclusive of taxes

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