

ISO/IEC 17025:2017 IMPLEMENTATION COURSE

23rd - 27th
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	Orientation and Climate Setting.
10:00 – 10:30 am	Introduction, Framework, and Context of ISO/IEC 17025:2017 Opening Session <ul style="list-style-type: none">Welcome and course overviewParticipant expectations & pre-assessmentStructure of the ISO/IEC 17025:2017 standard (Third Edition)
10:30 – 11:00 am	TEA- BREAK
11:00 – 12:30 p.m	Foundation Concepts <ul style="list-style-type: none">Purpose, scope, and application of ISO/IEC 17025Key changes introduced in the Third EditionRisk-based thinking and process-based approachRelationship with ISO 9001 and other standards
12:30 – 14:00 p.m	LUNCH - BREAK
14:00 – 16:30 p.m	Clause-by-Clause Understanding/Overview <ul style="list-style-type: none">Clause 4: General requirements (impartiality, confidentiality) & Clause 5: Structural requirementsIdentifying risks to impartiality in laboratory operationsMapping laboratory structure to ISO/IEC 17025 requirements

Day 2 24-02-26	EVENTS
09:00 – 10:30 am	Resource Requirements & Process Controls Clause 6: Resource Requirements <ul style="list-style-type: none"> Personnel competence, authorization, and training programs Facilities, environmental conditions/controls & Traceability of measurements Equipment selection, calibration, maintenance, and metrological traceability according to Third Edition changes Purchasing services & external providers External calibration, reference materials, and supplier evaluation and updated expectations regarding equipment and reference standard management from the Third Edition
10:30 – 11:00 am	TEA- BREAK
11:00 – 12:30 p.m	Clause 7 (Part 1): Process Requirements <ul style="list-style-type: none"> Review of requests, tenders & contracts Method selection, validation, and verification Sampling requirements, Handling of test and calibration items
12:30 – 14:00 p.m	LUNCH - BREAK
14:00 – 16:30 p.m	<ul style="list-style-type: none"> Competence matrix development, Equipment calibration/verification planning Prepare a draft equipment management program & designing a competency qualification checklist for analysts
Day 3 25-02-26	EVENTS
09:00 – 10:30 am	Technical Processes, Quality Control & Reporting Results Clause 7 (Part 2): Technical and Process Implementation <ul style="list-style-type: none"> Technical records Measurement uncertainty evaluation Ensuring valid results (quality control, PT/ILC participation) Quality control and assurance of results: Reporting of results (test reports, calibration certificates)
10:30 – 11:00 am	TEA- BREAK
11:00 – 12:30 p.m	Evaluation of Measurement Uncertainty <ul style="list-style-type: none"> Principles of MU in testing and calibration & Practical MU calculation demonstration Microbiology, molecular, chemical, and instrumental examples
12:30 – 14:00 p.m	LUNCH - BREAK
14:00 – 15:30 p.m	Ensuring Validity of Results <ul style="list-style-type: none"> Internal quality controls Use of CRMs, reference strains, blanks, duplicates Trend analysis and control charts
Day 4 26-02-26	EVENTS
09:00 – 10:30 am	Management System Requirements Clause 8: Management System Implementation Options <ul style="list-style-type: none"> Option A vs Option B (ISO 9001 alignment) Documentation structure: policies, procedures, SOPs, forms Document control & record management Actions to address risks and opportunities (risk register updates)
10:30 – 11:00 am	TEA- BREAK
11:00 – 12:30 p.m	Internal Audits <ul style="list-style-type: none"> Audit principles (ISO 19011 guidance), Audit planning, conducting, reporting, and follow-up Managing audit findings and evidence collection
12:30 – 14:00 p.m	LUNCH - BREAK
14:00 – 15:30 p.m	Management Reviews <ul style="list-style-type: none"> Inputs, outputs of management reviews & Continual improvement mechanisms
Day 5 26-02-26	EVENTS
09:00 – 10:30 am	Implementation Planning, Accreditation Readiness & Final Assessment Implementation Roadmap <ul style="list-style-type: none"> Building a laboratory implementation plan, Gap assessment and corrective action strategies Resource planning for ISO 17025 accreditation & Communication with accreditation bodies
10:30 – 11:00 am	TEA- BREAK
11:00 – 12:30 p.m	Accreditation Assessments <ul style="list-style-type: none"> What assessors look for Handling nonconformities during an assessment Evidence presentation & assessor interaction skills
12:30 – 14:00 p.m	LUNCH - BREAK
14:00 – 15:00 p.m	Integration & Continual Improvement <ul style="list-style-type: none"> Laboratory practices and digitalization opportunities Risk-based quality management in daily operations & Sustaining compliance post-accreditation Recap of the course, closing ceremony and issuance of certificates.

Online Training available at: www.chromafrica.com

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Deadline: 13th Feb 2026

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

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