REPUBLIC OF KENYA
MINISTRY OF HEALTH

KENYA MEDICAL LABORATORY TECHNICIANS AND TECHNOLOGISTS BOARD

KMLTTB CURRICULUM MAPPING POLICY AND GUIDELINES FOR FOREIGN-TRAINED APPLICANTS.

Pursuant to the Medical Laboratory Technicians and Technologists Act CAP 253 A Laws of Kenya

QUALITY ASSURANCE SERVICES

	KMLTTB CURRICULUM MAPPING POLICY AND GUIDELINES FOR FOREIGN-TRAINED APPLICANTS.		DOCUMENT CONTROL Serial: KMLTTB/CUR/MAP/POLICY/01 Version 001 Date: 19TH OCTOBER, 2026
	OWNERSHIP	REGISTRAR	

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INTRODUCTION

The Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB) is a body corporate with statutory mandate to exercise general supervision and control over the training, practice, business and employment of medical laboratory technicians and technologists under Cap 253A Laws of Kenya. The Board also advises the Government in relations to all aspects thereof including validation of invitro diagnostics through Legal Notice NO.113 of 2011

Pursuant to the **Medical Laboratory Technicians and Technologists Act, CAP 253A of the Laws of Kenya**, the Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB) establishes TRAINING STANDARDS which are a comprehensive regulatory framework. This standard governs medical laboratory operations for the diagnosis, treatment, clinical management, treatment monitoring, and prevention of all diseases, within the Republic of Kenya.

The main goal of the MLS services is to ensure provision of safe, professional, competent and ethical Medical Laboratory Services in accordance to Cap 253A of the Laws of Kenya.

The **Standards for Medical Laboratory Services in Food and Nutrition Diseases** is one of the guidelines prepared by the KMLTTB prescribing mandatory clinical practice and competencies professionals shall practice in the course of their duty.

Our Vision

"That the Health of every Kenyan will be fully protected through effective regulation of the practice of laboratory medicine."

Our Mission

"To Exercise General Control and Supervision over training, business, employment and practice of Laboratory Medicine and Advise the Government on all related matters."

Our Core Values

Integrity; Selfless service; Innovation and open-mindedness; Sense of belonging; Pride in what we do.

1. PURPOSE AND SCOPE

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This policy establishes a standardized mechanism for the **Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB)** to evaluate, map, and align the curricula of individuals who completed their medical laboratory sciences training **outside of Kenya**. The primary goal is to verify that foreign training meets the rigorous quality, safety, and core competency standards required for Professional registration and licensing under Kenyan law.

2. LEGAL AND REGULATORY FRAMEWORK

This policy operates under the mandate of the **Medical Laboratory Technicians and Technologists Act (Cap. 253A)** of the Laws of Kenya, ensuring that all practicing professionals possess equivalent competencies to those trained under the approved KMLTTB curriculum.

3. CORE CURRICULUM MAPPING CRITERIA

The Quality Assurance Department and Registration Committee shall evaluate the submitted curricula against the standard KMLTTB benchmark across five primary vectors:

A. **Credit Hour Equivalency:** Total instructional and Medical laboratory contact hours must meet or exceed Kenyan standards.
B. **Core Disciplinary Depth:** Verification of adequate coursework in Clinical Chemistry, Hematology, Blood Transfusion Science, Medical Microbiology, Parasitology, Histopathology, and Immunology.
C. **Clinical Rotation / Practicum:** Minimum required hands-on probation/ internship hours in an accredited hospital laboratory setting.
D. **Institutional Accreditation:** The training institution must be recognized by the regulatory body of the country of origin.

4. EVALUATION AND MAPPING PROCESS

Step 1: Application Submission – The applicant submits an official transcript, detailed Syllabus/curriculum, proof of graduation, and registration from the host country.

Step 2: Document Verification – Credentials undergo translation (if applicable) and verification of authenticity.

Step 3: Gap Analysis – Subject-by-subject mapping to identify missing components or deficiencies relative to the KMLTTB curriculum.

Step 4: Board Determination – Approval, conditional approval (requiring remedial coursework/clinical placement), or rejection.

5. REQUISITE SUBJECT MAPPING MATRIX

SN.O	Core Subject Area	KMLTTB Benchmark Requirements	Applicant Equivalency Status Attachment Hours
1.	Clinical Chemistry	Instrumentation, Metabolic Profiles, Quality Control, Endocrinology	[ ] Matches [ ] Gap Identified
2.	Hematology and Blood Transfusion	Hemostasis, Anemias, Immunohematology, Cross-matching, Donor Care	[ ] Matches [ ] Gap Identified

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3.	Medical Microbiology and Virology	Bacteriology, Mycology, Antibiotic Sensitivity, Diagnostic Virology	[ ] Matches [ ] Gap Identified
4.	Histopathology and Cytology	Tissue Processing, Sectioning, Staining, Exfoliative Cytology	[ ] Matches [ ] Gap Identified
5.	Clinical Practicum / Internship	Minimum structured rotation in a certified tertiary lab facility	[ ] Matches [ ] Gap Identified

Implementation Framework: Minimum Credit Hours, Language Proficiency Requirements, and Gap Analysis Instruments for Foreign-Trained Applicants.

6. . Minimum Credit Hour and Clinical Placement Benchmarks

To satisfy registration criteria under the **Medical Laboratory Technicians and Technologists Act (Cap. 253A)**, foreign curricula must meet or exceed the following structural standards. The Board converts all foreign metrics to equivalent **Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB)** academic credits (1 credit = 10 Nominal learning hours).

REQUIREMENTS BEFORE BEING ADMITED TO SIT FOR KMLLTTB REGISTRATION EXAMINATIONS						
SNO.	CORE CURRICULA DOMAIN	KMLTTB BENCHMARK REQUIREMENTS		MINIMUM ACADEMIC CREDITS (KMLTTB)	REQUIERD CLINICAL ATTACHMENT(HRS)	
		DIPLOMA	*DEGREE*		DIPLOMA	BSC
1.	Medical Microbiology (Bacteriology)	12	14	100	40	60
2.	Medical Microbiology (Virology)	8	10	100	40	60
3.	Medical Microbiology (Mycology)	8	10	100	40	60
4.	Clinical Chemistry / Metabolic Biochemistry	12	14	160	40	60
5.	Hematology	12	14	160	40	60
6.	Blood Transfusion Science (Immunohematology)	12	14	160	40	60
7.	Histopathology	12	14		40	60
8.	Cytopathology	6	8	100	40	60
9.	Medical Parasitology	12	14	100	40	60

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10.	Medical Entomology	6	8	80	40	60
11.	Immunology	8	10	60	40	60
12.	Medical Laboratory Management, Ethics, Laws and Safety (Biosafety and biosecurity)	12	14	140	40	60
13.	Molecular Diagnostics	12	14	140	40	60
14.	Epidemiology	10	12	100	40	60

7. The Kenya Medical Laboratory Technologists and Technicians Board (KMLTTB) establishes strict benchmarks for training institutions under the Medical Laboratory Technicians and Technologists (Curriculum and Course Content) Regulations and the KMLTTB Institutional Curriculum Development and Harmonization Regulatory Process Guide

8. The general regulatory framework for both **Diploma** and **BSc (Degree)** curricula across these core domains requires adherence to specific credit structures and clinical hours. According to KMLTTB standards, clinical attachment must be a **minimum of 16 weeks** (or up to **1,760 hours** across full professional block placements for long-cycle vocational integrations) where trainees must rotate across *all* core competencies in a board-approved facility. This is however escalated to 12 Months for those trained outside of the republic of Kenya

9. Detailed English Language Proficiency Requirements

Since English is the official language of instruction and practice in Kenyan clinical settings, all applicants from
Non-English speaking jurisdictions or whose primary training medium was not English must demonstrate proficiency through standardized tests.

10. REMEDIATION AND GAP CLOSURE

Applicants identified with curriculum gaps missing up to a defined threshold may be allowed to register or remedial courses at a KMLTTB-approved Kenyan training institution or undergo a supervised clinical placement prior to sitting the Board Exam.

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Title: Academic programme:

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S.No.		Yes	No	Remark/Recommendation
1.	The document is properly formatted and contains expected features of a KMLTTB document Standard.			
2.	The structure of the program is aligned to the KMLTTB format			
3.	The academic organization of the program is well articulated.			
4.	The programme title is reflective of the overall content of the programme.			
5.	The philosophy of the programme is appropriate, and consistent with KMLTTB's Philosophy.			
6.	The justification of the programme is appropriate /convincing.			
7.	The rationale of the programme is evidence-based and has evidence of needs-assessment/market survey/situational analysis/ and as per KMLTTB philosophy.			
8.	There is evidence of stakeholders' involvement in the designing of the programme including and not limited to KMLTTB, other approved MLS training institutions and the general public.			
9.	The goal of the programme is appropriate and related to the Institution's vision and mission.			
10.	Programmes' expected learning outcomes are linked to the goal of the programme.			
11.	Programmes expected learning outcomes are learner-centered and in conformity with KMLTTB regulations. .			
12.	Programmes' expected learning outcomes are concisely and precisely articulated.			
13.	Programmes' expected learning outcomes are SMART …*(Specific, measurable ,achievable, relevant and time-bound)			
14.	Programmes' expected learning outcomes comprehensively cover the knowledge, skills, attitudes/practices and areas of professional			

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	development that the learner is expected to acquire and master by the end of the course period.			
15.	The modes of delivery of the programme are clearly articulated and in conformity with KMLTTB regulations.			
16.	Minimum admission requirements for the proposed programme are comprehensively provided, including direct and alternative requirements and in tandem with KMLTTB regulations. .			
17.	The admission requirements for the programme are in line with nationally accepted admission requirements and in conformity with KMLTTB regulations.			
18.	The regulations for credit transfer are in line with *the* general national trends and in tandem with KMLTTB regulations.			
19.	The regulations for credit transfer are well articulated and include: • Type of certifications recognized for purposes of credit transfer • Maximum number of credits permissible for transfer; • Level of courses eligible for credit transfer; • Minimum grade required for credit transfer. • Conformity with KMLTTB regulations.			
20.	The course requirements are well articulated with respect to: Student class attendance, attachment/ practicum/ internship, community service and in conformity with KMLTTB regulations.			
21.	The course requirements are well articulated with respect to: Obligations of the lecturer which including aspects of course delivery and facilitation.			
22.	The student assessment policy/criteria is well articulated with respect to: i. Continuous Assessment Tests (CATs) ii. End-Trimester/Quarter/Semester iii. Practicals iv. Other Assessments			



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23.	The grading system is well articulated in terms of marks and letter grades and in tandem with KMLTTB regulations.			
24.	The examination regulations, including examination malpractices, disciplinary action and mode of appeal are appropriate and in conformity with KMLTTB regulations.			
25.	The regulations on moderation of examinations, including the process and the role of internal and external examiners are appropriate and in conformity with KMLTTB regulations.			
26.	The graduation requirements, including the pass-mark and the total number of units/credits/lecture/instructional hours required for graduation purposes are explicitly provided and in conformity with KMLTTB regulations.			
27.	The non-classification *of the Diploma or D*egrees is well articulated as per KMLTTB regulations.			
28.	The operational definition of thesis/dissertation/project (whichever is applicable) is provided.			
29.	The description of the thesis/dissertation/project (as applicable) is well expounded to include: • Rationale of the thesis/dissertation/project in the programme • Facets of the thesis/dissertation/project Regulations of the thesis/dissertation/project.			
30.	The procedures for course evaluation are provided and in conformity with KMLTTB regulations.			
31.	The course evaluation is well expounded to include all aspects of the course: the course content, instructional process, infrastructure and equipment for the delivery, instructional and reference materials and assessments and in conformity with KMLTTB regulations.			
32.	The management and administration of the programme is well expounded to include			

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	aspects the programme placement/housing, academic leadership and internal quality assurance mechanisms and in conformity with KMLTTB regulations.			
33.	The distribution table comprising of the number of courses/units/credit hours/lecture hours allocated to: a. The Institution's common courses, b. Core courses of the programme c. Specialization/option area courses and, d. Electives (if any) is clearly articulated. e. Conformity to KMLTTB regulations.			
34.	The list of courses to be undertaken in the areas of Institution's common courses, core courses of the programme, specialization/option area courses and electives are clearly articulated and in conformity with KMLTTB regulations.			
35.	The matrix showing the courses that will be covered by each expected learning outcomes of the programme and specialization areas are clearly articulated and are in conformity with KMLTTB regulations.			
36.	The list of courses comprehensively address the expected learning outcomes of the programme and the specific specialization/optional areas and are in conformity with KMLTTB regulations. .			
37.	The courses proposed for this programme are appropriate for the diploma or degree level whichever is applicable and are in conformity with KMLTTB regulations.			
38.	The courses promote the institutional, KMLTTB, National and global goals, Vision and Mission.			
39.	The list of courses comprehensively address the expected learning outcomes of the programme and the specific specialization/optional areas and are in conformity with KMLTTB regulations. .			
40.	The courses proposed for this programme are in line with the trends of the courses offered globally for similar programmes.			

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41.	There is a systematic flow of courses from foundational courses to application/practical courses			
42.	The credit/units/lecture/instructional hours provided for each course is adequate and are in conformity with KMLTTB regulations..			
43.	The programme structure showing the courses to be taken by the students by quarter/trimester/semester is appropriate for the level of the students.			
44.	The minimum student workload for the programme is appropriate for the level of students.			
45.	The total credit/units/lecture/instructional hours required for graduation are adequate for the programme and are in conformity with the Technical, Vocational, Educational and Training Authority (TVETA), Commission of University (CUE) Standards whichever is applicable, and are in conformity with KMLTTB regulations.			
46.	The course codes are unique to each course of the programme			
47.	The course codes are descriptive of the type of course and the level of the programme for which the course is intended.			
48.	The titles of the courses are short, clear, descriptive of the content and appropriate for the courses.			
49.	The pre-requisites (where applicable) are appropriate for the course and are in conformity with KMLTTB regulations..			
50.	The purpose of each course is well articulated and are in conformity with KMLTTB regulations.			
51.	The purpose of each course relates to the course title.			
52.	The purpose of each course is realistic in scope and are in conformity with KMLTTB regulations.			
53.	The purpose of each course is appropriate for the level of students intended for and are in conformity with KMLTTB regulations. .			

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54.	The Expected Learning Outcomes (ELOs) of each course is learner-centered.			
55.	The Expected Learning Outcomes (ELOs) of each course is well formulated and SMART (Specific, Measureable, Achievable, Realistic and Time-Bound).			
46.	The Expected Learning Outcomes (ELOs) of each course is linked to its purpose.			
47.	The Expected Learning Outcomes (ELOs) of each course comprehensively cover the knowledge, skills, and Altitudes/ Practices in areas of professional development that students are expected to have acquired and mastered by the end of the course and are in conformity with KMLTTB regulations.			
48.	The course content is clearly articulated with topical and sub-topical areas to be covered and are in conformity with KMLTTB regulations.			
49.	The course content is relevant to the courses in focus and presented in a systematic manner.			
50.	The course content comprehensively addresses The expected learning outcomes of the courses in focus.			
51.	The loading of the course content is sufficient for the duration allocated to the various courses and are in conformity with KMLTTB regulations. .			
52.	The modes of delivery are appropriate for the nature of the courses in focus.			
53.	The modes of delivery are comprehensively provided and are in conformity with KMLTTB regulations..			
54.	Each course' assessments resonate with the programmes' student assessment policy/criteria and are in conformity with KMLTTB regulations. .			
55.	Each course assessments are appropriate for the nature of the courses in focus and are in conformity with KMLTTB regulations.			
56.	There is consistency in the application of a referencing style across all course outlines.			

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57.	The core reading materials are relevant to each of the courses in focus.			
58.	Current core reading materials are provided and are in conformity with KMLTTB regulations. .			
59.	The reading lists are diversified to include textbooks, journals and e-materials.			
60.	The list of core reading materials include local authors.			
61.	There is consistency in the application of a referencing style across all course outlines.			
62.	The recommended reference materials are relevant to the courses in focus.			
63.	Current recommended reference materials are provided and are in conformity with KMLTTB regulations. .			
64.	The reference materials are diversified to include textbooks, journals and e-materials.			
65.	The list of reference materials include local authors.			
66.	The curriculum is clearly written and void of editorial, both typographical and grammatical, errors.			
67.	The curriculum is cohesive, with the various components linked to each other.			
68.	The academic programme facilitates a balanced learning process.			
69.	The academic programme enhances appropriate attributes for the proposed level and is appropriate for Medical Laboratory Sciences students.			
70.	The programme is contextualized and relevant and are in conformity with KMLTTB regulations.			

Overall comments regarding the program:

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Details of peer reviewers:

	Name	Signature	Date
1.			
2.			
3.			
4.			
5.			

About the Review checklist:

The content of this peer review checklist was developed with significant reference to the Kenya Medical Laboratory Technicians regulations on training for the purpose of evaluation of academic programme of foreign trained Medical Laboratory Sciences professionals and for the approval and accreditation of institutions desirous of offering medical Laboratory Sciences Training in Kenya. This tool ensures that KMLTTB's peer review of MLS Programmes aligns with recognized benchmarks of evaluation and for quality assurance.

.....THE END.....

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