



REPUBLIC OF KENYA
MINISTRY OF HEALTH



KENYA MEDICAL LABORATORY TECHNICIANS AND TECHNOLOGISTS BOARD
PROBATION LOGBOOK FOR TRAINED OUTSIDE KENYA

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

KMLTTB QUALITY ASSURANCE SERVICES

	PROBATION LOGBOOK FOR TRAINED OUTSIDE KENYA		DOCUMENT CONTROL
	OWNERSHIP	REGISTRAR	Serial: KMLTTB/FOREIGN/TRN/01 Version 001 Date: 7 TH , OCTOBER, 2026

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INTRODUCTION

Medical laboratory Science is a competency-based training. This requires hands – on experience in a clinical set-up for a given period of time as may be stipulated by the training curriculum and level of training. Adequate clinical exposure enables students of medical laboratory sciences to appreciate professional ethics, processes, standard operating procedures, laboratory safety, quality assurance, Team work, compliance requirements and relate laboratory diagnosis with clinical diagnosis among others. The Logbook comprises a standard checklist to guide students' clinical supervisors on the scope of expectations and an assessment form for supervisors which shall be filled in accordingly by the person on the bench who oversees the students. The clinical instructor in the attachment facility is responsible for all records documented during the attachment period.

Candidates trained outside Kenya wishing to undertake a probation in Medical laboratory Sciences are expected to undergo mandatory clinical/ hospital based attachment. As attachment is part of their training. A 12-month (52 weeks) clinical attachment in designated clinical laboratories only the hours per course are specified in the attachment plan.

Applicants are expected to undergo attachment in the indicated time frame. Clinical instructors will sign to indicate and confirm active participation and interactions.

KMLTTB was established in the year 2000 through an Act of Parliament CAP 253A of the Laws of Kenya. In accordance with this Act, the KMLTTB is mandated to provide general supervision and control over the training, business, employment and practice of medical laboratory profession; It advises the government on all matters thereof. This mandate means that the Board provides guidelines and standards to training institutions in MLS.

The main goal of the MLS programme is to prepare graduates who are able to provide safe, professional, competent and ethical Medical Laboratory Services in accordance to Cap 253 A of the Laws of Kenya.

The MLS students' logbook is one of the training guidelines prepared by the KMLTTB prescribing mandatory clinical practice period and competencies students must acquire in the course of training.

1.1.1 Our Vision

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

1.1.2 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.”

1.1.3 Our Core Values

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

1.2 The Medical Laboratory Science Profession

The Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB) has established that Medical Laboratory sciences is a profession: as an autonomous profession; characterized by its own Body of Knowledge and Scope of Practice, which certifies its own practitioners; and requires of its practitioner's competency in scientific, technical, managerial and scholarly principles, and high standards of performance and professional conduct.

KMLTTB defines the profession of Medical Laboratory Sciences as encompassing the design, performance, evaluation, reporting, interpreting, and clinical correlation of medical Laboratory testing, and the management of all aspects of these services. Medical laboratory tests are utilized for the purpose of diagnosis, treatment, monitoring and prevention of disease.

The profession includes basic trained individual in all Medical Laboratory Sciences namely Parasitology, Entomology, Microbiology, Virology, Hematology, Immunology, Blood Transfusion Medicine, Clinical Chemistry, Toxicology, Cytogenetics, Histopathology, Cytopathology and Molecular Diagnostics.

The Medical Laboratory Sciences professional also include specialties in all the above basic Medical Laboratory Sciences. Integral features of each of the specialties include diagnostic testing, research, consultation, education, information management, marketing and administration. KMLTTB has a professional code of ethics that sets forth the principles and standards by which medical laboratory professionals' practice.

1.3 Description of the Scope of Practice

Medical Laboratory Sciences professionals, as members of the healthcare team, contribute to the prevention of disease, and the diagnosis, treatment, and prognosis of pathophysiological conditions in humans. Medical laboratory personnel are responsible for assuring reliable and accurate medical laboratory test results.

Quality medical laboratory testing is evidenced by: performing the correct test, on the right person, at the right time, producing accurate test results, with the best outcome, in the most cost-effective manner. This is accomplished by:

- a) Ensuring that appropriate Medical Laboratory tests are ordered;
- b) Procuring Medical Laboratory test samples in an efficient, timely manner;
- c) Producing accurate Medical Laboratory test results;

- d) Correlating and interpreting Medical laboratory test data;
- e) Disseminating Medical Laboratory test information to clinicians and patients in a timely manner;
- f) Evaluating the outcome of Medical Laboratory testing for each individual patient and the entire health care system;
- g) Utilizing qualified medical laboratory personnel.

The practice of medical laboratory science requires:

- a) Assessing, designing, evaluating and implementing new medical laboratory test methods;
- b) Evaluating the appropriateness of existing and new medical laboratory methods for clinical utility, cost-effectiveness and cost-benefit analysis;
- c) Developing, implementing, and reporting results of medical laboratory research;
- d) Designing and implementing cost-effective delivery models for medical laboratories, including their services and personnel;

Developing and implementing a comprehensive Quality Management System to include:

- a) Quality control and assurance of medical laboratory testing services;
- b) Competency assessment of personnel;
- c) Integration with other aspects of the healthcare delivery system for ensuring appropriate utilization of medical laboratory testing services;
- d) Continuous process improvement activities to effectively utilize human resources;
- e) Designing, implementing and evaluating academic curricula for the education of new medical laboratory professionals;
- f) Designing, implementing and evaluating academic curricula for advanced education of medical laboratory professionals;
- g) Designing, implementing and evaluating continued education activities and career growth opportunities for medical laboratory professionals;
- h) Promoting awareness and understanding of the use of the medical laboratory.

1.4 Description of Current Practice

The following scenarios describe specific examples of the scope of practice of medical laboratory sciences.

a. Providers of Medical Laboratory Services

Medical Laboratory Officers qualified by education and experience, perform laboratory tests and provide test results to clinicians and to consumers upon request or upon clinician referral. These services can be used to assess wellness and identify disease risk factors, as well as assisting in the diagnosis, monitoring and treatment of disease. Medical Laboratory Officers exercise prudence and judgment to ensure that such services are consistent with good practice and sound professional ethics. In addition, medical laboratory officers may own or operate laboratories.

b. Directors of Full-Service Medical Laboratories

Medical Laboratory Officers, with appropriate diploma and degree education, can direct full-service medical laboratories. This function is firmly grounded in Medical Laboratory Technicians and Technologists Act Cap 253A laws of Kenya.

c. Consultants for Medical Laboratory Services

Medical Laboratory Officers may appropriately provide assistance and advice to Clinicians, manufacturers, and consumers of Medical Laboratory testing services about the:

- a) Design and service scope of medical laboratories;
- b) Appropriate utilization, selection and sequencing of medical laboratory tests;
- c) Clinical correlations and interpretations of the quality and utility of specific laboratory results in collaboration with clinicians;
- d) Design and development of medical laboratory instruments, test kits and other components;
- e) Appropriate use, maintenance, quality assurance and other procedural and informational requirements.

1.5 Levels of Practice

There are hierarchical levels of practice, based upon education and experience, for each of the three areas of Medical Laboratory Science practice: Scientific, Managerial and Educational. Specific knowledge and experience are required for each level of practice within the three areas.

An individual is eligible to practice at various levels after acquiring additional experience, education, and demonstrating competence. Specific knowledge and experience is common to all three areas; none is mutually exclusive of the other. Demands of the health care environment often require an individual to practice in more than one area, thereby performing at different levels of practice.

The scientific function includes the production of test data, monitoring the accuracy, precision and utility of laboratory testing, the correlation and interpretation of test data, and the design, evaluation and implementation of new laboratory test methods.

The managerial function includes managing all aspects, technical, fiscal, workflow, and human resources, of medical laboratory operations.

The educational function includes the establishment and management of educational programs for new and current medical laboratory practitioners, other healthcare providers and consumers.

1.6 Qualifications for Practice

KMLTTB has prescribed standards for ALL personnel including Directors, Superintendents, Medical Laboratory Officers to ensure the accuracy and reliability of test performance.

KMLTTB has developed curricula for both diploma and degree level of Medical Laboratory Sciences education and training at universities and colleges. These curricula forms the bases for basic training for one to join Medical Laboratory Sciences profession in Kenya. Further, KMLTTB has set minimum standards of training in terms of physical facilities (Medical Laboratory Sciences Demonstration Laboratories, medical Library and lecture rooms. This standards also include academic profile where the requirement.

For one to join diploma training is expected to have completed secondary school education and obtained, in one sitting, a minimum of mean grade of C plain at KCSE and cluster subject that consist of;

- 1) English or Kiswahili - C plain
- 2) Mathematic or Physics - C plain
- 3) Biology - C plain
- 4) Chemistry - C plain

For one to join degree training is expected to have completed secondary school education and obtained, in one sitting, a minimum of mean grade of C+ (plus) at KCSE and cluster subject that consist of;

- 1) English or Kiswahili - C+ plus
- 2) Mathematics or Physics - C+ plus
- 3) Biology - C+ plus
- 4) Chemistry - C+ plus

The Board has also made it mandatory for institutions to present all selected Applicant trained outside Kenyas in Medical Laboratory Sciences to KMLTTB 30 days post admission for scrutiny of their qualification and they are thereby indexed for future reference in training and practical areas allocations

KMLTTB has also ensured approved Medical Laboratory Sciences training institutions are equipped with human resource capacity that is composed of registered and licensed Medical Laboratory Science professionals who are specialized in the areas that they teach. These areas are mainly the core units of medical laboratories sciences as indicated as the basic discipline.

Persons not qualified in the basic Medical Laboratory Sciences subjects are not allowed to participate in teaching the core areas.

In accordance with MLTT Act and this regulations;

- a) KMLTTB has requires that all invitro Diagnostics (Medical Laboratories reagents and equipment's) are validated and verified to ascertain their quality to ensure all medical laboratory test are accurate. This should be done by qualified medical laboratory professionals in certified medical laboratory institutions. The process is scientific excises that determines validity of invitro diagnostics information as claimed by the manufactures and establishes precision specify, specificity and linearity among other attributes required for specific testing.
- b) KMLTTB requires all qualified medical laboratory technician and technologist to have sat and passed registration examinations offered just before registration.
- c) KMLTTB requires practitioners to maintain CPD points for every year of practices in accordance with the CPD guidelines

KMLTTB/GEN/03

d) KMLTTB requires that all medical laboratory Technicians and technologist in both public and private practice to observe medical laboratory quality improvement and implement ISO 15189:2022 and any subsequent version to ensure quality of medical laboratory service and not necessary for accreditation. All reference Medical Laboratory should ensure accreditation status.

1.7 Code of Ethics

This code of Ethics applies to medical Laboratory Professionals in Kenya (Technicians and Technologists)

As practitioners of an autonomous profession, Medical Laboratory Professionals have the responsibility to contribute from their sphere of professional competence to the general well-being of the community.

The Code of Ethics is a resource for the profession and a support for the individual in everyday practice and in challenging situations. At the same time, they are society's guarantee that the Medical Laboratory professional (MLP) practices the profession in an ethically sound manner.

1.7.1 Duty to the global society

Medical laboratory professionals shall:

- a) Be dedicated to the use of medical laboratory sciences to benefit humanity
- b) Perform medical laboratory research to improve and develop public health globally
- c) Be responsible for establishing new standards and develop existing standards for improved medical laboratory practice and patient safety
- d) Take responsibility and play a leading role towards issues regarding the global and local environment.

1.7.2 Duty to the client

Medical Laboratory Professionals shall:

- a) Be responsible for the logical process from the acquisition of the specimen to the production of data and the final report of the test result

- b) Be accountable for the quality and integrity of medical laboratory services
- c) Exercise professional judgment, skill and care while meeting international standards
- d) Maintain strict confidentiality of patient/client information and results of medical laboratory analysis and investigations.
- e) Safeguard the dignity and privacy of patients/clients
- f) Implement scientific advances that benefit the patient/client and improve the delivery of results of medical laboratory analysis and investigations.

1.7.3 Duty to colleagues, the professionals and other members of the health team

Medical Laboratory Professionals shall:

- a) Uphold and maintain the dignity and respect of the profession and maintain a reputation of honesty, integrity and reliability
- b) Continuously improve professional skills and knowledge
- c) Actively seek to establish cooperative and harmonious working relationships with other health professionals
- d) Provide expertise and advice, teach and counsel students, colleagues and other health professionals
- e) Be loyal to the policies, laws and legislations which apply to the workplace, as long as they do not conflict with the professional ethical guidelines

1.8 Medical laboratory professionals' oath /solemn promise

I As a Medical Laboratory Professional, do hereby pledge to uphold my duty to Patients, the Profession and Society by:

- i. Placing patients' welfare above my own needs and desires.
- ii. Ensuring that each patient receives care that is safe, effective, efficient, timely, equitable and patient-centered.
- iii. Maintaining dignity and respect for my profession.
- iv. Promoting the advancement of my profession.

- v. Ensuring collegial relationships within the medical laboratory and with other patient care providers.
- vi. Improving access to Medical laboratory services.
- vii. Promoting equitable distribution of healthcare resources.
- viii. Complying with laws and regulations and protecting patients from others' incompetent or illegal practice.

GENERAL INFORMATION

This logbook is a tool that is meant to serve as a guide for the minimum required competencies for the **MLS PRACTITIONERS TRAINED OUTSIDE OF THE** Republic of Kenya. The log book therefore, is a guide for both the Applicant and mentors to enable them jointly achieve the objectives of the probation programme.

The clinical attachment is considered as a mandatory practicum unit that the Medical Laboratory Sciences (MLS) professionals are supposed to undertake. The logbook aims at assisting applicants trained outside Kenya to keep record of the training during clinical probation attachment. The applicants are expected fill the logbook at the end of every working day and comprehensively indicate the tasks done and the skills learnt in that particular day. By showing the departments and sections in which the applicant has worked and the periods of time spent in each, the logbook will help in establishing competencies acquired by the applicants in MLS probation training.

2.1 Users of the Log Book

The logbook targets Diploma and Degrees in MLS applicants who hold qualifications from institutions outside of the Republic of Kenya and have been duly vetted and certified as equivalent to Kenyan standard at respective level of training.

2.2 Instructions for use

The following are the regulations for use:

- i. It is the sole responsibility of the applicant to take care of their probation log book

- ii. Any forgery of signatures will result in the immediate discontinuation from probation.
- iii. Demonstration of procedures by the qualified staff is mandatory prior to the learners performing the same.
- iv. Date, name and KMLTTB registration number of the signing evaluator/mentor/assessor should be clearly written in the column provided.
- v. Applicants/Learners should ensure that all relevant competencies are signed on time during clinical placement.
- vi. Evaluators are obligated to counter check that the minimum skills' performance requirement is achieved before appending their signatures and KMLTTB registration numbers.

2.3 Structure of the log book

The logbook covers all areas that core competencies are expected to be acquired by the MLS practitioner as outlined in the core curriculum. In each practicum unit, the logbook is supposed to capture tasks, procedure and number of procedures, evaluation and evaluators' KMLTTB registration, signature and date. The attachment will be undertaken in the after due diligence in vetting and certifying persons trained outside Kenya for a minimum of 52 weeks for 100% coverage.

2.4 The Expected Competencies

By the end of the attachment the Applicant/learner shall be expected to have achieved the following competencies:

- i. Laboratory practice knowledge and skills.
- ii. Communication skills.
- iii. Professional conduct and compliance to the law.
- iv. Leadership and management knowledge and skills.
- v. History taking.

- vi. Clinical examination.
- vii. Provision of clinical and Medical laboratory service.
- viii. Skilled in the clinical techniques required for diagnosis and investigation in Medical laboratory practice.
- ix. Appropriate attitudes and communication skills required for clinical and Medical laboratory practice in dealing with patients and colleagues.
- x. Management skills required for the running of an effective diagnostic and clinical services.
- xi. Time management and decision making.
- xii. Understand the legal framework within which healthcare is provided in Kenya.

2.5 Responsibilities of the Student

The responsibilities of the student include but are not limited to:

- i. Ensuring they acquire the logbook from KMLTTB.
- ii. Ensuring full compliance in line with KMLTTB requirements i.e. administration, presentation for signing by the mentors, safe custody, return to KMLTTB for filing and recording.
- iii. Writing a report and submitting to KMLTTB Head of Department registration and a copy to attaching hospital laboratory signed practical rotation completion form..

2.6 Failure to Complete the Attachment

Failure by the Applicant to cover 100% clinical attachment will lead to either of the following depending on evidence presented to the Board:

- i. Not being allowed to sit for registration examination..
- ii. Repeating the probation.
- iii. Discontinuation of the probation.

ATTACHMENT PLAN

SECTION	HOURS
1. Laboratory Management & Biosafety	60
2. Bacteriology	240
3. Mycology	30
4. Virology	60
5. Immunology / Serology	120
6. Parasitology	240
7. Haematology	240
8. Blood transfusion/Phlebotomy	240
9. Chemistry	240
10. Histology/Cytology	120
11. Molecular biology & genetics	60

12.	Forensic Medicine	60
13.	Ward rounds and CME's	30
14.	Nuclear Medicine	30
15.	Nutrition	30
TOTAL		52weeks

LABORATORY MANAGEMENT

SCOPE	HOURS COVERED
Introduction to organization and management of Health systems	
Introduction to laboratory management	
Management of laboratory personnel	
Staffing norms and manpower requirements	
Training of laboratory personnel	
Professional medical Laboratory ethics, Legal and Regulatory standards	
Organization and management of Medical Laboratory Services	
Setting up the laboratory	
Selecting essential laboratory tests	
Laboratory physical infrastructure	
Management, maintenance and Calibration of laboratory equipment	
Management of laboratory chemicals and supplies	

Laboratory supply chain management	
Management of laboratory safety, cleaning, disinfection, sterilization and waste disposal	
Specimen management	
Quality management system	
Laboratory quality assurance	
Laboratory management information system (LIMS)	
Outreach, training and support supervision	
Laboratory research and collaboration	
Laboratory Financing management	
Monitoring and evaluation of the laboratory services	
Inventory	
Roles and functions of the division of medical laboratory services	
Laboratory documents and records: • SOPs • Laboratory request forms	

• Incidence reporting registers • Patient records • Laboratory reports • Policy documents • QC charts	
Documentation process: • Interpretation of laboratory request form • Sample collection and labelling • Recording of patient particulars • Processing of sample using SOPs • Interpretation of results • Recording of results • Preparation of laboratory reports • Transmission of laboratory reports	
Validation of reagents	
QA/QC	

ASSESSMENT FORM FOR INSTITUTIONAL SUPERVISORS

This form is designed to assist you to objectively assess the Applicant trained outside Kenya attached in your organization.

Your assessment of the Applicant trained outside Kenya will be highly valued. Kindly complete the form using the scores below for every quality indicated:

1: Poor 2: Satisfactory 3: Good

QUALITY	REMARK
Attendance	
Punctuality and personal grooming	
Attitude to and interest in work	
Skills: a) Analytical Procedures b) Equipment handling c) Communication	
Knowledge	
quality of work	
Ability to learn and perform task under supervision	
Team work with a) Colleagues. b) Subordinates. c) Supervisor(s).	
Judgment in situation	

Adaptability to Environment and Adjustment	
Effective use of student's time	
Initiative/Creativity	
Good lab practice	

Bench Supervisor's Name: ----- KMLTTB Professional REG No: - _____

SIGNATURE: _____ Date: _____

BIOSAFETY – BIO SECURITY

	SCOPE	REMARKS
Bio Safety	GLP	
	Signage	
	Hazards / Risks	
	Facility Design	
	Sterilization and Disinfection of infectious material	

	Disposal of Infectious and Noninfectious waste - Waste segregation	
	Personal protective equipment	
	Protective barriers - BSL Cabinets - Fume Cupboards	
	Storage of: - Reagents - Records	
Bio Security	Physical security	
	Risk Assessment	
	Bio profiling	
	Transport of specimen	
	Fire Hazards Types of laboratory fires	

Bench Supervisor's Name: _____
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Date _____

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Attendance	
Punctuality and personal grooming	
Attitude to and interest in work	
Skills: a) Analytical Procedures b) Equipment handling c) Communication	
Knowledge	
quality of work	
Ability to learn and perform task under supervision	
Team work with a) Colleagues. b) Subordinates. c) Supervisor(s).	
Judgment in situation	

Adaptability to Environment and Adjustment	
Effective use of student's time	
Initiative/Creativity	
Good lab practice	

Bench Supervisor's Name: ----- KMLTTB Professional REG No: - _____

SIGNATURE: _____ Date _____

BACTERIOLOGY

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Safety	PPE				
	Sterilization and disinfection				
Specimens	Collection (Blood, CSF, Swabs, Urine, Stool, Sputum)				
	Processing				
	Preservation				
	Transportation				
	Disposal				
Media preparation	Liquid				
	Semi-solid				

	Solid				
	Cell culture of obligate bacteria				
	Media storage				
Microscopy	Identification of types				
	Use of microscopes				
	Observation of cell morphology				
Staining	Gram staining				
	Acid-fast staining				
	Ziehl Neelsen staining				
Identification of bacteria	Biochemical testing				
	Colony morphology				
Blood	Culture				
	Bacterial Identification				
	Bacterial Susceptibility testing				
	Serology				
CSF	Macroscopic examination				
	Microscopic inspection				
	Culture				
	Bacterial Identification				
	Bacterial Susceptibility testing				
Urine	Macroscopic examination				
	Microscopic inspection				

	Culture				
	Bacterial Identification				
	Bacterial Susceptibility testing				
Stool	Visual examination				
	Culture				
	Bacterial Identification				
	Bacterial Susceptibility testing				
Sputum	Decontamination				
	Visual examination				
	Staining				
	Microscopic examination				
	Culture				
	Bacterial Susceptibility testing				
Sterility testing					
Food, water and milk	Coliform count				
	Toxicological examination				
	Culture				
	Bacterial Identification				
	Most Probable Number (MPN)				

Bench Supervisor's Name: -----

KMLTTB Professional REG No: - _____

SIGNATURE: _____

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Attitude to /interest in work	
Skills: a) Analytical Procedures b) Equipment handling c) Communication	
Knowledge	
quality of work	
Ability to learn and perform task under supervision	
Team work with a) Colleagues. b) Subordinates. c) Supervisor(s).	
Judgment in situation	

Adaptability to Environment and Adjustment	
Effective use of student's time	
Initiative/Creativity	
Good laboratory practice	

Bench Supervisor's Name: _____ KMLTTB Professional REG No: _____

SIGNATURE: _____ Date _____

VIROLOGY

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Safety	Classification of laboratories (Biosafety levels)				
	Microbiological safety cabinets				
	PPE				
	Sterilization and disinfection				
Specimens	Collection (Blood, CSF, Nasopharyngeal/Oropharyngeal Swabs, Urine, Stool, skin scrapings)				
	Processing				
	Preservation				
	Transportation				
	Disposal				
Cell culture	Media				
	Cell lines				
	Cytopathic effects (CPE)				
	Aseptic techniques				
	Cryopreservation				

Virus media	Virus transport media				
	Virus growth media				
	Virus maintenance media				
Microscopy	Electron microscopy				
	Fluorescent microscopy				
	Inverted light microscope				
Detection of viruses	Electron microscopy				
	Cell culture				
	Histological examination				
Detection of virus components	Nucleic acid (PCR, Hybridization, sequencing)				
	Virus antigens				
	Virus envelopes				
Detection of virus-specific antibody response	Serodiagnosis				
Virus quantitative assays	Viral load				
	Cell counting				
	CD4/CD8 analysis				
	Plaque forming units/ml				

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Knowledge	
quality of work	
Ability to learn and perform task under supervision	
Team work with a) Colleagues.	

b) Subordinates. c) Supervisor(s).	
Judgment in situation	
Adaptability to Environment and Adjustment	
Effective use of student's time	
Initiative/Creativity	
Good lab practice	

Bench Supervisor's Name: -----

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MYCOLOGY

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Skin	Microscopy				
	KOH preparation				
	Giemsa Stain				
CSF	Indian Ink				
Pus Exudates	ZN Stain				
	Squash Preparation				
Cervical Exudates	Yeast culture and identification				
	Gram Stain				
	Bacterial Culture and Identification				
	Wet Mount				

Bench Supervisor's Name: _____

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Judgment in situation	
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Initiative/Creativity	
Good lab practice	

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SIGNATURE: _____ Date _____

HEMATOLOGY

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Blood	Blood counts – Reticulocyte Count				
	Phlebotomy Preservation				
	Sickling Test				
	KCCT, INR BTT PTI				
	Hb				
	ESR				
	Haemoglobin electrophoresis				
	osmotic fragility tests				
	estimation of serum iron				
	estimation of plasma Haemoglobin				
Bone Marrow	staining of bone marrow				
	preparation of histological section of bone marrow for examination				

Bench Supervisor's Name: _____
SIGNATURE: _____

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SIGNATURE: _____ Date _____

BLOOD TRANSFUSION

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Blood	Blood Grouping (manual and automated)				
	Antibody screening				
	Antibody titration				
	Identification of leukocytes and platelets antibodies				
	Albumin addition techniques				
	preparation and characteristics of various blood products				
	preparation of antisera				
	screening of donated blood for TTI				
	HLA typing				
	Screening for Blood parasite				

Bench Supervisor's Name: -----

KMLTTB Professional REG No: - _____

SIGNATURE: _____

Date _____

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1: Poor**2: Satisfactory****3: Good**

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Attendance	
Punctuality and personal grooming	
Attitude to and interest in work	
Skills: a) Analytical Procedures b) Equipment handling c) Communication	
Knowledge	
quality of work	
Ability to learn and perform task under supervision	

Team work with a) Colleagues. b) Subordinates. c) Supervisor(s).	
Judgment in situation	
Adaptability to Environment and Adjustment	
Effective use of student's time	
Initiative/Creativity	
Good lab practice	

Bench Supervisor's Name: ----- Professional REG No: - _____
SIGNATURE: _____ Date _____

HISTOLOGY AND CYTOLOGY

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Cervical Smear	Preservation and transport of cervical smears				
	Papanicolaou Staining				
Tissues	H and E Staining Cytological staining				
	Gram Stain				
	Diagnostic cytology: cell counts, anaemia, Leucaemia.				
	Romanovsky Staining				
	Demonstration of hypertrophy, hyperplasia,				
	Fresh preparation and temporary tissue preparations				

	• Fixing, • Decalcification • Embedding, • Blocking • Sectioning • Mounting • Staining of tissues • Staining of inclusions • Staining of microorganisms in tissues				
	Preparation and storage of museum specimens				
	Embalming and mortuary techniques				

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Effective use of student's time	
Initiative/Creativity	
Good lab practice	

Bench Supervisor's Name: ----- KMLTTB Professional REG No: - _____

SIGNATURE: _____ Date _____

CLINICAL CHEMISTRY

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
BLOOD	Specimen Collection				
	Renal Tests				
	Liver functioning tests				
	Cardiac Enzymes				
	Blood Gases				
	Special assays for Opiates detection				
	Gamma -GT				
	C- Reactive Protein				
	ALP				
	Pancreatic Assays				
Urine	Appearance				
	Specific Gravity tests				
	Bilirubin				

	Ketone				
	Nitrates				
	pH				
	Leucocytes				
	Soluble egg specific Antigen for Schistosoma				
	HCG				
	Bio markers for substance abuse				
CSF	Macroscopic Appearance				
	Glucose				
	Albumin				
	Electrophoresis				

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c) Supervisor(s).	
Judgment in situation	
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Initiative/Creativity	
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IMMUNOLOGY

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Whole Blood	Immunotyping - FAT - Flow cytometry				
	Identification of Cells of the Immune system - CD4 Markers - Hematological studies				
	Direct Coombs Test				
	Indirect Coombs Test				
Serum	HIV Serology				
	PSA				
	Beta HCG				
	Tumor Markers				
	Anti-nuclear body				

	Hepatitis				
	CFT				
	Agglutination Test				
	Neutralization reactions				
	Indirect & direct FAT				
	Gelatin Diffusion				
	Immuno-electrophoresis				
	Fluorescent Ab based -indirect and indirect				
	ELISA				
	Immuno- chromatography				
	Immunological blots • Western blots • Southern blots • Northern Blots				

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Good lab practice	

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SIGNATURE: _____ Date _____

PARASITOLOGY

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Blood	Blood smear				
	- Thick smear - Thin Smear				
	Romanowsky Stain				
	Buffy coats				
Stool	Staining Methods:				
	- Field Stain - Giemsa Staining				
	Macroscopy for:				
	- Appearance - Consistency - Colour				
	Direct Mounts				
	Wet Mounts				
	Lugols Iodine				
	Eosin				

	Concentration Techniques : • Formol- ether techniques • Zinc sulphate flotation • Kato's technique Special Stains • Modified ZN • Lugols iodine • Eosin • PAS				
	Cultures				
Urine	Macroscopy - Appearance				
	Microscopy				
Genital specimen	Direct Microscopy				
	Culture				
CSF	Appearance				
	Sedimentation				
	Microscopy				
	CrAg Stain				
	Romanowsky Stain				
Sputum	Appearance				
	Stain				
	Microscopy				

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Initiative/Creativity	
Good lab practice	

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SIGNATURE: _____

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MOLECULAR BIOLOGY

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Safety	PPE				
	Sterilization and disinfection				
	Handling and storage of chemicals				
Specimens	Collection				
	Processing				
	Preservation				
	Transportation				
	Disposal				
Buffers, reagents and solutions	Preparation				
	Handling				

	Storage				
Tests	Nucleic acid extraction				
	Polymerase Chain Reaction (PCR)				
	Electrophoresis				
	Quantification of DNA				
	Nucleic acid hybridization				
	Restriction enzyme digestion				

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Effective use of student's time	
Initiative/Creativity	
Good lab practice	

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FORENSIC MEDICINE

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Safety	PPE				
	Sterilization and disinfection				
	Handling and storage of chemicals				
Specimens	Collection				
	Processing				
	Preservation				
	Transportation				
	Disposal				
Buffers, reagents and solutions	Preparation				
	Handling				
	Storage				

Tests	Microscopy				
	Molecular analysis				
	Toxicological analysis				
	Macroscopic examination				
	Autopsy/biopsy				
	Immunological examination				
	Semen analysis				
	Forensic entomology				
SEMEN ANALYSIS	Smell, Volume and Colour				
	Counts				
	Viscosity/Time to liquefy				
	Culture				
	Thin film for Romanowsky staining				
	Thin film for morphology examination				

	Wet prep for inclusions observation				
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NUCLEAR MEDICINE

Sample	Test	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
Radiography Department					
	Radioisotope dilution procedures for blood				
	Thyroid uptake of radioactive iodine				
	Radioimmunoassay				
	Disposal of radioactive material				
	Use of Geiger counters				
	Intestinal studies of iron metabolism				
	Radioisotope tests for renal function				
	Vitamin B12 absorption				

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NUTRITION

Nutrition Department	TEST	Technique/ Principle	Materials / Equipment used	Hours Covered	Technical supervisor
	Clinical observation and examination				
	Anthropometric measurements				
	Biochemical measurements of nutritional assessment				
	Dietary history				
	Dietetics				

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WARD ROUNDS & CME'S

SCOPE	REMARKS
Communication - Body Language - Verbal Communication	

- Listening	
Etiquette	
- Respect	
- Curtsey towards the patients and healthcare professionals	
- Personal Grooming	
Attitude	
Assertiveness / Pro active Involvement during ward rounds	
Ability to impart knowledge on quality sampling to fellow healthcare professionals on the following : • Appropriate specimen containers • Labeling • Phlebotomy techniques • Specimen handling and shipment • Appropriate sample volumes	
CME'S ATTENDED	

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