

# VIVO- Medical Lab Technician (MLT)

Medical Lab Technicians are important members of any clinical laboratory team. Medical Lab Technicians analyze fluid, tissues and blood samples to perform a variety of diagnoses. They generally work under the supervision of a pathologist. On successful completion of the course, students can work in hospitals, diagnostic labs, blood banks and medical clinics.

## Objectives

### After completion of the course, participants will be able to:

- Conduct chemical analysis of body fluids, such as blood or urine, using microscope or automatic analyzer to detect abnormalities or diseases.
- Analyze the results of tests or experiments to ensure conformity to specifications, using special mechanical or electrical devices.
- Set up, maintain, calibrate, clean, and test sterility of medical laboratory equipment.
- Collect blood or tissue samples from patients, observing principles of asepsis to obtain blood samples.
- Conduct blood tests for transfusion purposes and perform blood counts.
- Inoculate fertilized eggs, broths, or other bacteriological media with organisms.
- Consult with a pathologist to determine a final diagnosis when abnormalities are found.
- Analyze and record test data to issue reports.



## Course Description

- Introduction to Healthcare Systems & Laboratory Services
- Role of the Medical Lab Technician
- Structure and Function of Human Body
- Introduction to Clinical Biochemistry
- Introduction to Laboratory related Medical Terminology
- Bio Medical Waste Management
- Introduction to Hematology and Clinical Pathology.
- Pre-analytical Laboratory Testing Process
- Infection control and prevention
- Personnel Hygiene and Safety & First Aid
- Analytical Testing Process
- Analytical Testing Process
- Introduction to Bacteriology, Histopathology, Cytopathology, Immunology, Serology and Blood Banking
- Observing, Reporting & Documentation
- Professional Behavior in Healthcare Setting
- Patient's Rights & Responsibilities
- Introduction to cytopathology & histopathology
- Fine Needle Aspiration Cytology (FNAC)
- Introduction to post analytical laboratory testing
- Basic Sensitization to Parasitology, Mycology and Virology

## Highlights

- **Theory+Simulation** : 1200 Hours
- **Internship** : 800 Hours
- **Eligibility** : 10+2 in science or Level 3  
Phlebotomy with experience in laboratory setup

- **Duration** : 2000 Hours/12 Months
- **Certification** : VIVO Healthcare/NSDC