



Medical Laboratories (Microbiology,
Hematology and Biochemistry)

18 - 20 May 2025
Online



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Ref.: 15333_304549 **Date:** 18 - 20 May 2025 **Location:** Online **Fees:** 1500 **Euro**

Introduction

This course is the first part of an elementary introduction to the operation of a clinical medical laboratory. It assumes that the learner has little or no background in medical practice or clinical laboratory science. It is ideal for those who desire an introduction to the operation and function of the laboratory and the qualifications and mindset of those professionals who staff it. The course compares and contrasts the operation and function of the anatomical pathology laboratory and the clinical laboratory. The learner is taught about the different clinical laboratory personnel their role in the laboratory as well as the typical departments of the clinical laboratory and their functions.

Course Objectives:

- Compare and contrast the operation and function of the anatomical pathology laboratory and the clinical laboratory.
- Name the different clinical laboratory personnel and explain their role in the laboratory.
- List the typical departments of the clinical laboratory and describe their functions.
- Compare and contrast the various sites for laboratory testing.

Targeted Groups:

- Staff of the Clinical Laboratory
- The clinical laboratory is the place where patients' blood, body fluid, and other specimens are processed, analyzed, and reported
- Which of the following laboratory roles requires a 2-year associate degree
- Which of the following laboratory roles is responsible for collecting blood specimens

Course Content:

Unit 1: Introduction to the Medical Laboratory

It is a science that combines biology and chemistry, and is considered a field in health care on which many critical medical decisions that change a patient's life depend, as it is estimated that 60%-70% of decisions related to a patient's diagnosis, treatment, hospitalization or recovery depend on the results of the tests that Performed by medical laboratory scientists.

Unit 2: The Medical Laboratory Basics

- BASIC LAB SKILLS
- BASIC IMMUNOLOGY CONCEPTS
- BASIC HEMATOLOGY
- INTRO TO BIOCHEMISTRY
- INTRO TO PSYCHOLOGY
- INTRO TO SOCIOLOGY
- INTRO TO BIOCHEMISTRY



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Unit 3: Overview of the Clinical Laboratory

- PHLEBOTOMY
- QA LAB MATH
- URINALYSIS
- GEN ANATOMY & PHYSIOLOGY
- BLOOD BANK 10513109
- COAGULATION
- MICROBIOLOGY

Unit 4: Clinical Chemistry

- ADVANCED HEMATOLOGY
- CLINICAL MICROBIOLOGY
- ADVANCED MICROBIOLOG

Unit 5: Molecular Diagnostics

Unit 6: Immunology and Serology



**Registration form on the :
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