

# Triumphant College



## Triumphant Short Course Series

### Laboratory Testing Preparedness for Pandemic threatening public Health Course

**Date:** Every month 2nd to 4th week

**Duration:** 3 weeks

**Venue:** Triumphant College, Windhoek, Namibia

**Method:** Face-to-face

**Course Fees:** USD 3700

#### Introduction

The international focus on COVID-19 provided a spotlight on the critical role of clinical laboratory scientists in monitoring and managing pandemic diseases. The key role of the medical laboratory scientist is to participate in the diagnosis of the disease in collaboration with the multidisciplinary health care team. Their role in any response to an epidemic or pandemic response is to investigate specific cases for the occurrence of the supposed agent of epidemic or pandemic disease. To perform this role effectively and efficiently, laboratory management and the laboratory team must not only understand the signs, symptoms, and routes of transmission of the pandemic infectious diseases but should also ensure medical laboratories are prepared and equipped to fulfil their role successfully during pandemics.

However, most health systems globally including medical laboratories were ill-prepared to effectively respond to the Covid-19 pandemic.

#### Purpose

Develop the knowledge and skills to better prepare for, respond to, and recover from a pandemic.

#### Why this course?

- 70% of today's medical decisions depend on laboratory test results, showing the important role of clinical laboratories in today's healthcare system
- Threats to national security and health can happen at any time, such as disease outbreaks, bioterrorist attacks, or chemical or

radiological releases

- Experts estimate that 40,000–80,000 deaths occur annually from preventable diagnostic errors
- Many laboratories have had to include COVID-19 on their testing menu. COVID-19 has negatively impacted routine programs and the unique requirements of molecular testing protocols for COVID-19 have led laboratories to realign resources to meet the needs of increased testing

#### Course Content

Module 1: Introduction to Medical Laboratory services & Systems  
Module 2: Regulatory framework and Lab Governance System  
Module 3: Laboratory Management and Leadership  
Module 4: Laboratory Quality Management System & Accreditation  
Module 5: Clinical lab diagnostics and testing  
Module 6: Supply chain management and Logistics in Medical laboratories  
Module 7: Introduction to Epidemiology  
Module 8: Pandemics: Risks, Impacts, and Mitigation  
Module 9: Biosafety in Microbiological and Biomedical Laboratories  
Module 10: Lab Preparedness and capability building  
Module 11: Planning for medical laboratory's response during pandemics

#### Target Group:

Laboratory Managers, Hospital Managers, Policy makers, Lab Scientists, and laboratory funders

