



# FUNDAMENTALS IN INFECTION PREVENTION AND CONTROL



Closing date for registrations: 31 January 2022

PRESENTED BY INFECTION CONTROL AFRICA NETWORK (ICAN)

**Cape Town: 22 March - 26 August 2022**

**CPD accredited at SAMA**

The fundamental course specifically targets newly appointed IPC practitioners, any healthcare worker or scientist interested in the field of IPC and is extremely popular. The aim is to equip students with a sound basic knowledge of evidence based best practices in infection prevention and control (IPC) and to enable them to apply their knowledge in practice. The training is practical and clinically orientated and can be applied to any clinical setting.

This is a **six-month part-time** course consisting of three blocks. Each block has a two-week **mandatory contact session** (face-to-face) followed by a **self-study period and assignment of five weeks**. The contact sessions entail formal lectures in the morning with practical work in the afternoons.

## Course Objectives

- Understand basic microbiology and the mechanisms of transmission of pathogens.
- Understand the defence mechanisms of pathogens and how it relates to antimicrobial stewardship.
- Understand the role of surveillance to identify and manage healthcare-associated infections and outbreaks.
- Identify and manage risks related to IPC.
- Understand how the building environment impact on IPC.
- Understand the important role of decontamination of surgical devices in the prevention of infections

The course will be presented in the form of lectures, ward rounds, demonstrations, practical sessions, discussion groups, problem solving at the place of work and report back, using analytical written reports. Formative assessments are conducted during the course, followed by a summative assessment (formal examination) at the end of each module to establish competency.

### BLOCK ONE- two weeks

#### Module 1: Basic Microbiology and Antimicrobial Resistance

- Basic aspects of anatomy and physiology of bacteria, viruses, fungi and parasites
- Mechanisms of transmission of microorganisms
- Interpretation of laboratory results
- Minimum requirements of laboratory support for clinical services, including IPC
- Defense mechanisms of pathogens and the required precautions when dealing with resistant organisms
- Antimicrobial resistance
- The role of IPC in preventing the spread of antimicrobial resistance
- Antimicrobial stewardship (basics)
- Case studies and problem solving

### BLOCK TWO

#### Module 2: Surveillance

- Fundamentals of surveillance methods for healthcare-associated infections (HAI)
- Role of the laboratory in HAI surveillance
- Identification and management of outbreaks
- Healthcare-associated vs community outbreaks
- Database to manage IPC information
- Calculation of basic bio statistical data
- Effective IPC audit programme and design of audit tools

#### Module 3: Risk Management and safe practices in IPC

- How IPC is structured and implemented in health-care
- Core Components of IPC
- Risk management in IPC
- Risk mitigation strategies
- Standard precautions
- Transmission based precautions and isolation of patients
- IPC Bundles to prevent healthcare-associated infections
- Hand hygiene
- Environmental cleaning

### BLOCK THREE

#### Module 4: Decontamination: Rendering patient and processing equipment safe

- Minimum requirements for the decontamination of patient care articles
- Understand the decontamination cycle
- Validation of decontamination processes
- Minimum requirements of a disinfection policy

#### Module 5: Improving hospital design and environment

- Best designs for IPC in low to middle-income countries
- Influence of disease profile on hospital design
- Role of IPC in renovation or new building projects
- The role of water and sanitation on infrastructure design
- How the layout of a healthcare facility can contribute to adherence to IPC processes
- Ventilation requirements for different areas

## Admission requirements:

- Registered nurse or doctor, working in a clinical field.
- Persons currently in an IPC position or doing work with an IPC component.
- Dedicated computer and stable internet access

**Course fee: R17,000 (excluding VAT)  
\$1170\***

\*subjected to change due to fluctuation of exchange rate

Which include:

- Course material
- Lectures by renowned experts
- Site visits and laboratory sessions (if possible)
- Certificate of Competence

## Registration and enquiries:

Course administrator  
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