



MiChem Dynamics
LEADING CHANGE

BASIC LABORATORY TECHNIQUES IN A MICROBIOLOGY LABORATORY TRAINING

The Basic Laboratory Techniques in Microbiology training course offers a comprehensive introduction to fundamental practices essential for working in a microbiology laboratory. Aimed at individuals with varying levels of experience, the course covers key concepts, skills, and safety protocols necessary for conducting microbiological experiments and analyses.

Throughout the course, participants will engage in hands-on activities, practical demonstrations, and interactive sessions to reinforce theoretical knowledge. By the end of the training, attendees will have gained a solid understanding of basic laboratory techniques in microbiology, enabling them to confidently and safely conduct microbiological work in a laboratory setting.



THE COURSE WILL RUN OVER A PERIOD OF 3 DAYS

LEARNING OUTCOMES:

- Understand the basic analytical technique of methods operated in your unique laboratory (from sample receipt to reporting of final results).
- Understand the handling, function, use and disposal of certified reference materials (CRMs) / reference materials, equipment, glassware, chemicals and reagents specific to methods operated in own laboratory.
- Understand the basic requirements of ISO/IEC 17025 (introduction only).

WHO SHOULD ATTEND THIS COURSE:

- Laboratory managers / supervisors
- Analysts / technicians
- Students

MINIMUM ENTRY REQUIREMENTS:

- Fluency in English writing and reading skills

TUITION:

- Training material included (English)
- Certificate of attendance or competence (based on outcome of assessment) will be issued on successful completion of training.

COURSE OVERVIEW:

DAY 1

- An introduction to the laboratory quality management system according to ISO/IEC 17025
- An introduction to good laboratory practices in microbiology testing

santie@michemdynamics.co.za | angeline@michemdynamics.co.za | 082 770 7127 or 078 335 0528

www.michemdynamics.co.za

COURSE OVERVIEW:

DAY 2

- Basic analytical technique of methods including:
 - Sample receipt and storage
 - Weighing practices
 - Correct use of all equipment and glassware presented in each method
 - Preparation and storage of media, chemicals, etc
 - Receipt, preparation, control, storage and disposal of certified reference materials (CRMs) / reference materials
 - Environmental conditions
 - Quality control technique
 - Dilutions
 - Interpretation of results
 - Reporting of results

DAY 3

- Basic analytical technique of methods continues
- Introduction to laboratory health and safety
- Housekeeping in a laboratory
- Test (assessment)

