



LABORATORY EXCELLENCE, SAFETY AND ACCREDITATION

Diagnostic Microbiology and Culture Technique

3 day course

Classroom, online or in-house

Course overview

Reliable microbiology depends on technique that is assumed rather than taught, and a contaminated plate or a misread culture sends a clinician down the wrong path with confidence. This course teaches the technique. Delegates work through aseptic transfer and the laboratory habits that keep a culture pure, specimen quality and the rejection criteria that should stop a poor sample being tested at all, and media selection, preparation and quality control. Inoculation, incubation conditions and reading a plate are practised. Identification follows: colony morphology, staining, biochemical tests and the automated systems that now do much of it. Susceptibility testing and its interpretation are covered, including the resistance patterns that must be reported urgently. The course closes on quality control, on contamination investigation and on biosafety.

What you will learn

- Perform aseptic transfer and maintain a pure culture
- Apply specimen rejection criteria before testing a poor sample
- Prepare and quality control media
- Inoculate, incubate and read plates correctly
- Identify organisms by morphology, staining and biochemical testing
- Perform and interpret susceptibility testing
- Investigate contamination and maintain biosafety

Who should attend

- Medical laboratory scientists and microbiology technicians
- Food safety and water testing microbiologists
- Veterinary and animal health laboratory staff
- Laboratory supervisors responsible for microbiology quality control

Course outline

- 01 Technique assumed rather than taught
- 02 Aseptic transfer and laboratory habits
- 03 Specimen quality and rejection criteria
- 04 Media selection and preparation
- 05 Inoculation and incubation
- 06 Reading plates and colony morphology
- 07 Identification and susceptibility testing
- 08 Resistance reporting, quality control and biosafety

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 23 October 2026	Pretoria, South Africa	Classroom	R14,950
23 to 25 November 2026	Online	Online	R6,500
10 to 12 March 2027	Lagos, Nigeria	Classroom	USD 995
15 to 17 March 2027	Accra, Ghana	Classroom	USD 995



Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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