



PROCESS AND CHEMICAL ENGINEERING

Drinking Water Quality Monitoring and Compliance

3 day course

Classroom, online or in-house

Course overview

A utility is judged on water quality by results it collects itself, which places a heavy obligation on the sampling programme and on what happens when a sample fails. This course covers both. Delegates work through the parameters that matter and why microbiological, chemical and aesthetic parameters carry different consequences. Designing a sampling programme follows: sample points across the network, frequency and the representativeness that makes a result meaningful. Sampling technique is covered practically, including the errors that contaminate a sample before it reaches the laboratory. Analysis methods and the limits of field testing are addressed. Interpreting results against the standard follows, including trend analysis rather than sample by sample reaction. Failure response is covered in sequence: verification, investigation, notification and boil water advisories. Consumer complaints and taste and odour investigation are addressed. The course closes on reporting to a regulator and on maintaining public confidence through an incident.

What you will learn

- Distinguish microbiological, chemical and aesthetic parameters by consequence
- Design a sampling programme with representative points and frequency
- Take samples without introducing contamination
- Apply laboratory and field analysis methods within their limits
- Interpret results by trend rather than sample by sample
- Respond to a failure through verification, investigation and notification
- Investigate consumer complaints and report to a regulator

Who should attend

- Water quality officers and samplers
- Utility laboratory staff
- Treatment plant supervisors
- Environmental health practitioners
- Compliance managers at water service authorities

Course outline

- 01 Judged on results you collect yourself
- 02 Parameters and their consequences
- 03 Designing a sampling programme
- 04 Sample points, frequency and representativeness
- 05 Sampling technique and contamination errors
- 06 Analysis methods and field testing limits
- 07 Interpreting results and trends
- 08 Failure response, advisories, complaints and regulator reporting

Upcoming dates



Dates	Venue	Format	Fee per delegate
7 to 9 October 2026	Kampala, Uganda	Classroom	USD 995
28 to 30 October 2026	Maputo, Mozambique	Classroom	USD 995
11 to 13 November 2026	Gaborone, Botswana	Classroom	R14,950
21 to 23 December 2026	Johannesburg, South Africa	Classroom	R14,950

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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