



PROCESS AND CHEMICAL ENGINEERING

Industrial Wastewater Treatment

5 day course

Classroom, online or in-house

Course overview

Industrial effluent is variable, sometimes toxic to the very biology meant to treat it, and discharged under a permit whose breach is an offence. This course covers treating it. Delegates work through effluent characterisation and load variation, primary treatment including screening, equalisation and oil separation, and physical chemical treatment such as coagulation, flocculation and dissolved air flotation. Biological treatment is covered in depth, including the conditions that upset a plant and how to recover it. Sludge handling and disposal follow. The course closes on monitoring, permit compliance and reporting, and on reducing load at source rather than treating it downstream.

What you will learn

- Characterise an effluent and account for load variation
- Operate screening, equalisation and oil separation
- Apply coagulation, flocculation and flotation effectively
- Operate biological treatment and recognise the conditions that upset it
- Recover a biological plant after an upset
- Handle and dispose of sludge lawfully
- Monitor, report and meet permit conditions

Who should attend

- Effluent and utilities plant operators
- Environmental and process engineers
- HSE and compliance officers
- Laboratory staff monitoring effluent
- Plant managers responsible for discharge permits

Course outline

- 01 Effluent characterisation and load variation
- 02 Screening, equalisation and oil separation
- 03 Coagulation, flocculation and flotation
- 04 Biological treatment fundamentals
- 05 Upset conditions and recovery
- 06 Sludge handling and disposal
- 07 Monitoring, permits and reporting
- 08 Load reduction at source

Upcoming dates

Dates	Venue	Format	Fee per delegate
2 to 6 November 2026	Accra, Ghana	Classroom	USD 1,325
7 to 11 December 2026	Johannesburg, South Africa	Classroom	R19,950
14 to 18 December 2026	Gaborone, Botswana	Classroom	R19,950
25 to 29 January 2027	Online	Online	R8,500



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** 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**.

AfriScience Group | +27 61 536 6531 | info@afriscience.co.za | Pretoria, Gauteng, South Africa