



PROCESS AND CHEMICAL ENGINEERING

Sludge Treatment, Handling and Disposal

3 day course

Classroom, online or in-house

Course overview

Sludge is the part of a treatment works that keeps producing whether or not anybody has planned for it, and a site with nowhere to put it will eventually compromise the treatment process to keep the flow moving. This course treats it as the operational constraint it is. Delegates work through sludge production and the quantities a works will actually generate, then through thickening by gravity, flotation and mechanical means. Stabilisation is covered, including anaerobic digestion and the operating conditions digesters need to stay stable. Biogas handling and its hazards are addressed. Aerobic and lime stabilisation follow for sites without digestion. Dewatering is covered across belt press, centrifuge and drying beds, with the polymer selection that decides performance. Pathogen reduction and classification for reuse are addressed. Land application, agricultural use and the restrictions that apply follow. The course closes on odour, on transport and on disposal cost.

What you will learn

- Estimate the sludge quantities a works will generate
- Thicken sludge by gravity, flotation and mechanical means
- Operate anaerobic digestion within stable conditions
- Handle biogas safely and apply alternative stabilisation methods
- Dewater using belt press, centrifuge or drying beds with correct polymer
- Achieve pathogen reduction and classify sludge for reuse
- Apply sludge to land within restrictions and control odour, transport and cost

Who should attend

- Treatment works operators responsible for sludge streams
- Process engineers at municipal utilities
- Environmental compliance officers
- Contractors handling sludge transport and disposal
- Managers planning sludge capacity and cost

Course outline

- 01 It keeps arriving regardless
- 02 Sludge production and quantities
- 03 Thickening methods
- 04 Anaerobic digestion and stability
- 05 Biogas handling and hazards
- 06 Aerobic and lime stabilisation
- 07 Dewatering and polymer selection
- 08 Pathogen reduction, land application, odour and cost

Upcoming dates



Dates	Venue	Format	Fee per delegate
28 to 30 September 2026	Maputo, Mozambique	Classroom	USD 995
19 to 21 October 2026	Pretoria, South Africa	Classroom	R14,950
4 to 6 January 2027	Windhoek, Namibia	Classroom	R14,950
27 to 29 January 2027	Kigali, Rwanda	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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