



PROCESS AND CHEMICAL ENGINEERING

Sewer Networks and Pumping Station Management

3 day course

Classroom, online or in-house

Course overview

Most sewer failures are visible on the street rather than in a control room, and by the time they are reported the utility is dealing with a public health incident and a reputational one at the same time. This course works on prevention. Delegates work through network hydraulics and why a sewer designed for gravity flow silts, blocks and surcharges in practice. Blockage causes are addressed specifically, including fat, rag and the illegal connection that overloads a catchment. Inspection methods follow, covering manhole survey, closed circuit television survey and coding what the footage shows. Cleaning and rehabilitation options are covered, including the choice between replacement and lining. Pumping stations are addressed in operational detail: wet well management, pump duty and standby, rising main issues and the alarm that must reach somebody. Odour and corrosion in sewers follow. The course closes on overflow management, on incident response and on maintaining an asset record that supports planning.

What you will learn

- Explain why gravity sewers silt, block and surcharge in service
- Identify blockage causes including illegal connections
- Survey a network by manhole inspection and closed circuit television
- Choose between cleaning, lining and replacement
- Operate wet wells, duty and standby pumps and rising mains
- Manage odour and sewer corrosion
- Respond to overflows and maintain an asset record for planning

Who should attend

- Sewer network operators and maintenance teams
- Pumping station technicians and supervisors
- Municipal engineers responsible for reticulation
- Utility planners and asset managers
- Contractors delivering sewer maintenance

Course outline

- 01 Discovered on the street
- 02 Network hydraulics and why sewers fail
- 03 Blockages, fat, rag and illegal connections
- 04 Manhole and closed circuit television survey
- 05 Cleaning, lining and replacement
- 06 Wet wells, duty and standby pumps
- 07 Rising mains, odour and corrosion
- 08 Overflows, incident response and asset records

Upcoming dates

Dates	Venue	Format	Fee per delegate
18 to 20 November 2026	Online	Online	R6,500
7 to 9 December 2026	Gaborone, Botswana	Classroom	R14,950
22 to 24 February 2027	Nairobi, Kenya	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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