



PROCESS AND CHEMICAL ENGINEERING

Rural and Small Town Water Scheme Management

3 day course

Classroom, online or in-house

Course overview

Rural schemes fail after handover far more often than they fail at construction, and the cause is almost never the engineering: it is that nobody was funded, trained or accountable for keeping the scheme running. This course addresses the operating model alongside the technology. Delegates work through scheme types from handpumps and piped gravity systems to solar pumped supplies, and the maintenance each realistically demands. Community management models and their weaknesses are covered honestly. Tariff setting, revenue collection and the arithmetic that shows whether a scheme can fund its own repairs follow. Spare parts supply chains and the availability that determines downtime are addressed. Operator training and the minimum competence a scheme needs are covered. Solar pumping is treated in detail given its spread, including sizing, battery decisions and theft. Monitoring functionality across many schemes follows. The course closes on major repair funding and on the point at which a scheme should be professionalised.

What you will learn

- Match maintenance demand to scheme type including solar pumped supplies
- Assess community management models honestly against their weaknesses
- Set tariffs and test whether a scheme can fund its own repairs
- Secure spare parts supply so downtime is short
- Define and deliver the minimum operator competence
- Size and protect solar pumping installations
- Monitor functionality across schemes and plan major repair funding

Who should attend

- Rural water supply officers and district staff
- Small town water scheme managers
- Non governmental organisation water programme staff
- Local authority engineers
- Community management committee support staff

Course outline

- 01 Failure after handover, not at construction
- 02 Handpumps, gravity systems and solar supplies
- 03 Maintenance each type demands
- 04 Community management and its weaknesses
- 05 Tariffs, collection and repair funding
- 06 Spare parts supply and downtime
- 07 Operator competence and training
- 08 Solar pumping, monitoring and professionalisation

Upcoming dates



Dates	Venue	Format	Fee per delegate
23 to 25 September 2026	Durban, South Africa	Classroom	R14,950
4 to 6 November 2026	Gaborone, Botswana	Classroom	R14,950
18 to 20 November 2026	Johannesburg, South Africa	Classroom	R14,950
15 to 17 February 2027	Lagos, Nigeria	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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