



PROCESS AND CHEMICAL ENGINEERING

Artificial Lift and Beam Pumping Operations

5 day course

Classroom, online or in-house

Course overview

Most producing wells cannot lift their own fluid for most of their life, and the lift method chosen determines both production rate and the cost of keeping the well running. This course concentrates on beam pumping, the most widely installed method, within the wider context of artificial lift. Delegates work through inflow performance and the relationship between drawdown and rate, sucker rod pump components and operation, and the surface unit including counterbalance and its correct setting. Dynamometer card interpretation is the core skill taught, followed by failure analysis for rods, tubing and pumps, and optimisation to raise production without shortening equipment life.

What you will learn

- Relate inflow performance to drawdown and production rate
- Compare artificial lift methods and their application ranges
- Describe sucker rod pump components and their operation
- Set counterbalance and surface unit parameters correctly
- Interpret surface and downhole dynamometer cards
- Analyse rod, tubing and pump failures
- Optimise production without shortening equipment life

Who should attend

- Production engineers and technologists
- Field operators and pumpers
- Well services and workover staff
- Production supervisors
- Graduate engineers in upstream operations

Course outline

- 01 Why wells need lift, and when
- 02 Artificial lift methods and their ranges
- 03 Inflow performance and drawdown
- 04 Sucker rod pump components
- 05 Surface unit and counterbalance
- 06 Dynamometer card interpretation
- 07 Rod, tubing and pump failure analysis
- 08 Optimisation and equipment life

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 25 September 2026	Online	Online	R8,500
4 to 8 January 2027	Maseru, Lesotho	Classroom	R19,950
18 to 22 January 2027	Mbabane, Eswatini	Classroom	R19,950
25 to 29 January 2027	Maputo, Mozambique	Classroom	USD 1,325



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