



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

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COURSE BROCHURE

Artificial Lift Systems

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0398 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to understand, evaluate, and manage artificial lift systems used in the oil and gas industry. It covers the principles, selection criteria, and operational aspects of various artificial lift methods to optimize production efficiency and safety.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0398
Accreditation	SAQA Accredited · NQF Level 5 · 4 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply the principles of artificial lift to select appropriate systems for given well conditions.
- Analyze production data to evaluate the performance of artificial lift systems and identify improvement opportunities.
- Evaluate the economic and operational trade-offs between different artificial lift methods.
- Design a basic artificial lift system for a specified well scenario.
- Implement best practices for installation, monitoring, and troubleshooting of artificial lift systems.
- Demonstrate compliance with safety and environmental regulations in artificial lift operations.

WHO SHOULD ATTEND

- This course is designed for petroleum engineers, production technologists, field operators, and technical managers involved in the design, operation, or optimization of artificial lift systems.

COURSE OUTLINE

Day 1: Fundamentals of Artificial Lift Systems

- Introduction to artificial lift and reservoir performance
- Overview of artificial lift methods: rod pumping, ESP, PCP, gas lift, plunger lift
- Components and working principles of rod pumps and ESPs
- Gas lift design and operation basics
- Selection criteria for artificial lift systems
- Well performance and inflow/outflow relationships
- Safety and environmental issues
- Introduction to monitoring and data collection

Day 2: Design, Optimization, and Troubleshooting

- Design calculations for rod pumps and ESPs
- Gas lift design and valve placement
- System optimization using nodal analysis
- Troubleshooting common failures: gas interference, solids, scaling, corrosion
- Monitoring and surveillance techniques
- Economic analysis and lift method selection
- Case studies of typical field problems
- Emerging technologies in artificial lift

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **4 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 11,900.00	R 11,900.00
1	In-House	R 15,400.00	R 15,400.00
1	On-Campus (Pretoria)	R 17,800.00	R 17,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
30 Sep 2026	01 Oct 2026	On-Campus	Maseru, Lesotho
30 Sep 2026	01 Oct 2026	On-Campus	Victoria Falls, Zimbabwe
01 Oct 2026	02 Oct 2026	In-House	—
01 Oct 2026	02 Oct 2026	On-Campus	Shenzhen, China
05 Oct 2026	06 Oct 2026	On-Campus	Nairobi, Kenya
05 Oct 2026	06 Oct 2026	On-Campus	Bangkok, Thailand
06 Oct 2026	07 Oct 2026	On-Campus	Windhoek, Namibia
07 Oct 2026	08 Oct 2026	Online	—

Contact us if no suitable date is listed – on-demand sessions can be arranged for groups.

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard AATICD-0398) and click **Get A Quote / Apply**. Select your training method and number of delegates – your quotation is generated immediately and emailed to you with the course brochure attached.
2. **Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to apply@aaticd.co.za – our team will reply with a formal quotation.
3. **Apply by phone or WhatsApp:** call +27 12 004 8389 or WhatsApp +27 65 077 6310 and we will prepare your quotation and reserve your seats.
4. **Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically – the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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