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

Oil and Gas Separation

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0385 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course provides comprehensive training on the principles and practices of oil and gas separation, equipping learners with the skills to operate, monitor, and troubleshoot separation equipment safely and efficiently. It focuses on the physical and chemical processes involved, safety protocols, and environmental considerations, ensuring compliance with industry standards.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0385
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 fundamental principles of oil, gas, and water separation to identify appropriate separation methods.
- Analyze the operational parameters of separation vessels to optimize performance and efficiency.
- Evaluate safety and environmental risks associated with separation processes and implement control measures.
- Design routine operational procedures for start-up, normal operation, and shutdown of separation units.
- Demonstrate troubleshooting techniques for common separation equipment issues.
- Implement maintenance and inspection practices to ensure integrity and reliability of separation systems.

WHO SHOULD ATTEND

- This course is designed for process operators, technicians, and engineers working in the oil and gas industry who are involved in the operation and maintenance of separation equipment.

COURSE OUTLINE

Day 1: **Fundamentals of Oil and Gas Separation**

- Overview of oil and gas production and the role of separation
- Principles of phase separation: gravity, coalescence, and centrifugal force
- Types of separators: vertical, horizontal, and spherical
- Separator internals: inlet diverters, mist extractors, weirs, and controls
- Factors affecting separation: pressure, temperature, flow rates, and fluid properties
- Basic separator operation: startup, shutdown, and normal running
- Safety and environmental aspects: pressure relief, gas venting, and liquid disposal

Day 2: **Advanced Separation Techniques and Troubleshooting**

- Performance monitoring and key performance indicators
- Troubleshooting common issues: foaming, emulsions, carryover, and pressure fluctuations
- Advanced separation: electrostatic coalescers, hydrocyclones, and membrane separators
- Separator sizing and capacity calculations
- Maintenance practices: inspection, cleaning, and component replacement
- Optimization strategies: adjusting operating conditions and chemical treatments
- Case studies and real-world applications

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 16,100.00	**R 16,100.00**
1	On-Campus (Pretoria)	R 17,800.00	**R 17,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
01 Dec 2026	02 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
01 Dec 2026	02 Dec 2026	On-Campus	Cape Town, South Africa
02 Dec 2026	03 Dec 2026	On-Campus	Shenzhen, China
02 Dec 2026	03 Dec 2026	On-Campus	Lagos, Nigeria
03 Dec 2026	04 Dec 2026	On-Campus	Durban, South Africa
08 Dec 2026	09 Dec 2026	On-Campus	Maseru, Lesotho
08 Dec 2026	09 Dec 2026	On-Campus	Kigali, Rwanda
08 Dec 2026	09 Dec 2026	On-Campus	Accra, Ghana

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

HOW TO GET A QUOTATION OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard AATICD-0385) and click **Get A Quotation**. 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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