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

Gas Processing and Conditioning

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0384 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the fundamental principles and practical skills required for effective gas processing and conditioning. It covers the entire value chain from raw gas extraction to marketable product, focusing on quality control, safety, and efficiency. By the end of the course, participants will be able to apply best practices in gas conditioning to ensure optimal performance and compliance with industry standards.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0384
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 gas processing to separate raw gas into valuable components.
- Analyze gas composition and properties to determine appropriate conditioning methods.
- Evaluate the performance of gas conditioning equipment and troubleshoot common issues.
- Design a gas conditioning process that meets product specifications and safety requirements.
- Implement quality control procedures to ensure gas purity and consistency.
- Demonstrate compliance with environmental and safety regulations in gas processing operations.

WHO SHOULD ATTEND

- This course is designed for process technicians, plant operators, and engineers working in the oil and gas industry, as well as technical staff involved in gas processing facilities.
- It is also suitable for individuals seeking to enter the gas processing field or enhance their operational knowledge.

COURSE OUTLINE

Day 1: **Fundamentals of Gas Processing and Conditioning**

- Overview of the gas value chain and processing objectives.
- Gas composition, phase behavior, and hydrate formation.
- Separation processes: oil-gas-water separation, knock-out drums.
- Dehydration methods: glycol dehydration, solid desiccants.
- Sweetening processes: amine treating, iron sponge.
- Equipment overview: separators, scrubbers, filters, heat exchangers.
- Safety and environmental considerations in gas processing.
- Introduction to gas measurement and flow calculations.

Day 2: **Advanced Conditioning and Practical Integration**

- NGL recovery: absorption, cryogenic processes.
- Sulfur recovery: Claus process, tail gas treatment.
- Gas conditioning for pipeline transport and LNG.
- Process control and optimization: instrumentation, control loops.
- Operational troubleshooting: foaming, corrosion, fouling.
- Sampling and testing methods for gas quality.
- Case studies: design and operation of a conditioning unit.
- Review and assessment of key competencies.

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	Shenzhen, China
01 Dec 2026	02 Dec 2026	On-Campus	Lagos, Nigeria
02 Dec 2026	03 Dec 2026	On-Campus	Durban, South Africa
03 Dec 2026	04 Dec 2026	On-Campus	Dubai, UAE
07 Dec 2026	08 Dec 2026	On-Campus	Maseru, Lesotho
07 Dec 2026	08 Dec 2026	On-Campus	Kigali, Rwanda
07 Dec 2026	08 Dec 2026	On-Campus	Accra, Ghana
07 Dec 2026	08 Dec 2026	On-Campus	Cape Town, South Africa

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-0384) 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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