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

# Natural Gas Processing

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0383 · NQF Level 5 · 4 Credits · 2 Days

## COURSE OVERVIEW

This course equips learners with the fundamental principles and practical skills required for the safe and efficient processing of natural gas. It covers the entire value chain from extraction to distribution, with a strong emphasis on operational safety, environmental compliance, and industry best practices.

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|---|---|
| Category | Custom Courses |
| Subfield | Energy, Oil and Gas |
| Unit Standard | AATICD-0383 |
| 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 natural gas processing, including separation, dehydration, and fractionation.
- Analyze the physical and chemical properties of natural gas and their impact on processing methods.
- Evaluate the safety and environmental risks associated with natural gas processing and implement control measures.
- Design a basic natural gas processing flow scheme, including equipment selection and process parameters.
- Implement standard operating procedures for gas processing units, ensuring operational efficiency and compliance.
- Demonstrate the ability to troubleshoot common process upsets and equipment malfunctions.

## WHO SHOULD ATTEND

- This course is designed for process operators, technicians, and engineers entering the natural gas industry, as well as experienced professionals seeking to formalize their knowledge and align with SAQA standards.

## COURSE OUTLINE

Day 1: Fundamentals of Natural Gas Processing

- Overview of natural gas value chain and processing objectives.
- Gas composition, phase behaviour, and hydrate formation.
- Wellhead separation and condensate handling.
- Acid gas removal (CO2, H2S) and sulphur recovery.
- Dehydration methods (glycol, molecular sieves) and dew point control.
- Compression and pipeline specifications.
- Safety systems, pressure relief, and environmental compliance.

Day 2: Advanced Processing and Simulation

- Process simulation fundamentals (equations of state, flash calculations).
- Design and rating of separation columns, absorbers, and strippers.
- Optimisation of dehydration and acid gas removal units.
- Troubleshooting foaming, corrosion, and fouling.
- Case studies of integrated gas processing plants.
- Introduction to LNG and NGL recovery (turboexpander, refrigerated processes).
- Energy efficiency and emissions reduction.

## 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 | Durban, South Africa |
| 02 Dec 2026 | 03 Dec 2026 | On-Campus | Dubai, UAE |
| 03 Dec 2026 | 04 Dec 2026 | On-Campus | Victoria Falls, Zimbabwe |
| 03 Dec 2026 | 04 Dec 2026 | On-Campus | Cape Town, South Africa |
| 10 Dec 2026 | 11 Dec 2026 | On-Campus | Maseru, Lesotho |
| 10 Dec 2026 | 11 Dec 2026 | On-Campus | Kigali, Rwanda |
| 10 Dec 2026 | 11 Dec 2026 | On-Campus | Accra, Ghana |
| 10 Dec 2026 | 11 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-0383) 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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