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 Dehydration

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0386 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to safely and efficiently dehydrate natural gas, ensuring the removal of water vapor to meet pipeline and processing specifications. It covers the principles of gas dehydration, types of dehydration systems, operational procedures, and safety measures, enabling participants to contribute to reliable and compliant gas processing operations.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0386
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 dehydration to explain the need for water removal from natural gas and the consequences of inadequate dehydration.
- Analyze different dehydration methods (e.g., glycol, molecular sieve) and select the appropriate method based on process conditions and requirements.
- Evaluate the key components and operation of a typical glycol dehydration unit, including the absorber, regenerator, and flash tank.
- Demonstrate the ability to monitor and control dehydration parameters such as temperature, pressure, and glycol circulation rate to optimize performance.
- Implement safety and environmental procedures related to gas dehydration, including handling hazardous materials and managing emissions.
- Diagnose common operational problems in dehydration systems and propose corrective actions.

WHO SHOULD ATTEND

- This course is designed for process operators, plant technicians, and maintenance personnel working in natural gas processing facilities or related industries, who need to understand and manage gas dehydration processes.

COURSE OUTLINE

Day 1: **Fundamentals of Gas Dehydration and Process Design**

- Introduction to natural gas dehydration and hydrate formation
- Dehydration methods: absorption, adsorption, and membrane separation
- Glycol dehydration process: absorption, stripping, and regeneration
- Process flow diagram of a typical TEG dehydration unit
- Key equipment: contactor, flash tank, regenerator, filters, and pumps
- Quality requirements for dry gas and sales gas specifications
- Safety and environmental considerations in gas dehydration

Day 2: **Operation, Troubleshooting, and Optimization**

- Start-up, normal operation, and shutdown procedures
- Troubleshooting: foaming, flooding, contamination, and off-spec gas
- Glycol maintenance: filtration, thermal degradation, and reclamation
- Optimization: circulation rate, regeneration temperature, and stripping gas
- Process monitoring and key performance indicators
- Safety and environmental compliance in operations
- Case studies and industry best practices

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	Dubai, UAE
02 Dec 2026	03 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
02 Dec 2026	03 Dec 2026	On-Campus	Cape Town, South Africa
03 Dec 2026	04 Dec 2026	On-Campus	Shenzhen, China
03 Dec 2026	04 Dec 2026	On-Campus	Lagos, Nigeria
09 Dec 2026	10 Dec 2026	On-Campus	Maseru, Lesotho
09 Dec 2026	10 Dec 2026	On-Campus	Kigali, Rwanda
09 Dec 2026	10 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-0386) 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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