



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

Crude Oil Processing

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0382 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the fundamental knowledge and practical skills required to safely and efficiently process crude oil. It covers the entire processing chain from receipt and storage to separation, treatment, and refining, with a strong emphasis on operational safety, environmental compliance, and quality control.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0382
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 principles of crude oil composition and properties to identify processing requirements.
- Demonstrate safe handling and storage procedures for crude oil and its fractions.
- Implement separation and treatment processes to produce specification-grade products.
- Analyze process parameters to optimize yield and quality while minimizing environmental impact.
- Evaluate emergency response procedures and risk mitigation strategies in crude oil processing.
- Design basic process flow diagrams for crude oil processing units.

WHO SHOULD ATTEND

- This course is designed for process operators, technicians, and supervisors working in the petroleum industry, as well as individuals seeking to enter the field of crude oil processing.

COURSE OUTLINE

Day 1: Fundamentals of Crude Oil and Processing

- Overview of crude oil: formation, types, and characteristics
- Key crude oil properties (API gravity, sulfur content, etc.)
- Introduction to refinery processes: atmospheric and vacuum distillation
- Separation principles: phase behaviour and distillation columns
- Overview of product streams: gas, naphtha, kerosene, diesel, residue
- Safety fundamentals: hazards, PPE, and emergency procedures
- Environmental aspects: emissions and waste management
- Quality control: sampling and basic laboratory tests

Day 2: Advanced Processing and Practical Application

- Conversion processes: catalytic cracking, hydrocracking, coking
- Upgrading processes: reforming, isomerisation, alkylation
- Treating processes: desalting, desulfurisation, sweetening
- Blending for product specifications
- Process control: instrumentation, control loops, and optimisation
- Troubleshooting common operational problems
- Energy efficiency and waste minimisation
- Case studies of refinery operations

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
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	—
07 Oct 2026	08 Oct 2026	On-Campus	Kigali, Rwanda
08 Oct 2026	09 Oct 2026	On-Campus	Mbabane, Eswatini

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-0382) 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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