Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa
Tel: +27 12 004 8389 · Mobile: +27 65 077 6310
Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Petroleum Processing Technology

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0381 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with comprehensive knowledge and practical skills in petroleum processing technology, covering the entire value chain from exploration to refining and distribution. Participants will gain a deep understanding of the chemical and physical processes involved, as well as the safety and environmental considerations critical to the industry.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0381
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 fundamental principles of petroleum chemistry and geology to identify and assess hydrocarbon reservoirs.
- Analyze the various stages of petroleum processing, including separation, conversion, and treatment processes.
- Evaluate the operational parameters and efficiency of distillation, cracking, and reforming units.
- Design safe and efficient processing workflows, incorporating quality control and environmental management practices.
- Implement troubleshooting strategies for common processing issues, ensuring continuous and safe operation.
- Demonstrate knowledge of the latest technological advancements and regulatory requirements in petroleum processing.

WHO SHOULD ATTEND

- This course is designed for technicians, engineers, and operations personnel working in the petroleum and petrochemical industries, as well as individuals seeking to enter this dynamic field.

COURSE OUTLINE

Day 1: **Fundamentals of Petroleum Processing**

- Introduction to petroleum: formation, exploration, and production
- Crude oil properties: API gravity, sulfur content, viscosity
- Overview of refinery configuration: topping, conversion, and treating
- Atmospheric and vacuum distillation
- Catalytic cracking, reforming, and hydrotreating basics
- Product blending and quality control
- Safety and environmental regulations in the industry

Day 2: **Advanced Processing and Practical Application**

- Advanced conversion processes: FCC, hydrocracking, coking
- Catalytic reforming and isomerization for high-octane fuels
- Hydrotreating and sweetening for sulfur removal
- Process control and instrumentation in refining
- Troubleshooting and optimization of process units
- Emerging technologies: biofuels, carbon capture, and electrification
- Integration of units and refinery energy management

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-0381) 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.

Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za