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

Petroleum Engineering

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0400 · NQF Level 5 · 6 Credits · 3 Days

COURSE OVERVIEW

This course provides a comprehensive introduction to the principles and practices of petroleum engineering, covering the entire value chain from exploration to production. It equips learners with the foundational knowledge and skills necessary to contribute effectively to petroleum projects, with a focus on safety, sustainability, and efficiency.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0400
Accreditation	SAQA Accredited · NQF Level 5 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply fundamental petroleum engineering principles to describe reservoir characteristics and fluid properties.
- Analyze drilling, completion, and production operations to optimize well performance.
- Evaluate reservoir performance using material balance and decline curve analysis techniques.
- Design basic well completion and production systems considering safety and environmental factors.
- Implement reservoir management strategies to maximize hydrocarbon recovery.
- Demonstrate an understanding of health, safety, and environmental (HSE) practices in petroleum operations.

WHO SHOULD ATTEND

- This course is designed for aspiring petroleum engineers, technical staff, and professionals seeking to enter or advance within the oil and gas industry.
- It is also suitable for individuals in related fields who require a solid understanding of petroleum engineering concepts.

COURSE OUTLINE

Day 1: **Fundamentals of Petroleum Engineering**

- Overview of petroleum engineering and career paths
- Petroleum geology: source rocks, migration, traps
- Reservoir rock properties: porosity, permeability, saturation
- Fluid properties: density, viscosity, phase behaviour
- Reservoir drive mechanisms
- Introduction to primary, secondary, and enhanced recovery

Day 2: **Drilling and Well Completions**

- Drilling rig components and functions
- Drilling fluid functions and properties
- Well design: casing, tubing, and wellheads
- Cementing operations: purpose and methods
- Perforating and completion methods
- Well control: kicks, blowout prevention
- Safety and environmental considerations

Day 3: **Production and Reservoir Management**

- Production systems: well, flowlines, separators
- Inflow and outflow performance relationships
- Artificial lift methods
- Well testing: pressure transient analysis
- Decline curve analysis and reserve estimation
- Waterflooding and enhanced oil recovery
- Field development planning and economic evaluation

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 **6 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 13,900.00	**R 13,900.00**
1	In-House	R 18,700.00	**R 18,700.00**
1	On-Campus (Pretoria)	R 20,800.00	**R 20,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
01 Dec 2026	03 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
01 Dec 2026	03 Dec 2026	On-Campus	Dubai, UAE
02 Dec 2026	04 Dec 2026	On-Campus	Shenzhen, China
02 Dec 2026	04 Dec 2026	On-Campus	Cape Town, South Africa
08 Dec 2026	10 Dec 2026	On-Campus	Maseru, Lesotho
08 Dec 2026	10 Dec 2026	On-Campus	Kigali, Rwanda
08 Dec 2026	10 Dec 2026	On-Campus	Accra, Ghana
08 Dec 2026	10 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-0400) 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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