



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

Oil and Gas Operations

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0155 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the fundamental knowledge and skills required to safely and efficiently perform operations in the oil and gas industry. It covers key aspects of upstream, midstream, and downstream processes, with a strong emphasis on health, safety, and environmental standards. By the end of the course, participants will be able to contribute effectively to operational excellence and risk management in oil and gas facilities.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0155
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Describe the key stages of oil and gas exploration, production, processing, and distribution.
- Apply safety protocols and hazard identification techniques in oil and gas work environments.
- Demonstrate correct use of personal protective equipment and emergency response procedures.
- Analyze operational risks and implement control measures to prevent incidents.
- Evaluate environmental impacts and apply waste management practices in line with regulations.
- Operate basic equipment and monitoring systems under supervision.

WHO SHOULD ATTEND

- This course is designed for entry-level operators, technicians, and supervisors working in or entering the oil and gas sector, as well as professionals seeking foundational knowledge in oil and gas operations.

COURSE OUTLINE

Day 1: Introduction to Oil and Gas Operations

- Overview of the oil and gas industry: history and significance
- The value chain: exploration, production, transportation, refining, marketing
- Key players: national and international oil companies, service providers
- Introduction to petroleum geology: source rocks, traps, reservoirs
- Regulatory framework: SAQA, DMR, SHEQ requirements
- Career opportunities and professional ethics

Day 2: Exploration and Drilling Operations

- Exploration techniques: 2D/3D seismic, gravity, magnetic surveys
- Drilling rig types: land rigs, jack-up, semi-submersible, drillships
- Drilling process: spudding, casing, drilling, cementing
- Drilling fluids: types, properties, and circulation system
- Well control: blowout preventers, kick detection
- Well completion: perforation, stimulation, production tubing

Day 3: Production Operations and Surface Facilities

- Production mechanisms: primary, secondary, enhanced recovery
- Artificial lift: rod pumps, ESPs, gas lift
- Wellhead components: Christmas tree, chokes, manifolds
- Surface facilities: oil/gas/water separation, storage, metering
- Pipeline operations: pigging, flow assurance, corrosion control
- Reservoir monitoring: pressure, temperature, production rates

Day 4: Refining, Processing, and Petrochemicals

- Crude oil distillation: atmospheric and vacuum units
- Conversion processes: catalytic cracking, hydrocracking, coking
- Treating processes: hydrotreating, sweetening, desulfurization
- Gas processing: glycol dehydration, amine treatment, cryogenic expansion
- Petrochemicals: ethylene, propylene, aromatics, polymers
- Refinery safety: fire protection, hazard analysis, emissions control

Day 5: Transportation, Storage, and Distribution

- Pipeline systems: design, operation, maintenance, integrity
- Marine transportation: tanker types, loading/offloading, safety
- Storage: aboveground and underground tanks, salt caverns
- LNG value chain: liquefaction, shipping, regasification
- Distribution: truck loading, retail stations, supply chain management
- Emergency response: spill containment, firefighting, evacuation plans

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 **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	21 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
24 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
31 Aug 2026	04 Sep 2026	On-Campus	Lusaka, Zambia
31 Aug 2026	04 Sep 2026	On-Campus	London, UK

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-0155) 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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