



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 Technician Programme

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0158 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This programme equips learners with the essential knowledge and practical skills to operate safely and effectively in petroleum handling, storage, and distribution environments. It covers key aspects of petroleum product properties, safe handling procedures, and emergency response, ensuring compliance with South African health and safety regulations.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0158
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

- Apply principles of petroleum product properties and safe handling procedures in the workplace.
- Demonstrate correct use of personal protective equipment and emergency response equipment.
- Analyze hazards associated with petroleum operations and implement risk control measures.
- Evaluate compliance with relevant South African health, safety, and environmental legislation.
- Implement spill containment and firefighting procedures in simulated emergency scenarios.

WHO SHOULD ATTEND

- This course is designed for entry-level technicians, operators, and supervisors working in petroleum depots, fuel storage facilities, or transportation companies who require formal training in petroleum handling and safety.

COURSE OUTLINE

Day 1: Introduction to Petroleum Industry and Safety

- Overview of the petroleum industry: upstream, midstream, downstream
- Introduction to petroleum products and their properties
- Health, Safety, and Environment (HSE) fundamentals
- PPE selection and use
- Emergency response procedures
- Workplace hazard identification and risk assessment

Day 2: Petroleum Measurement and Sampling

- Units of measurement and conversion factors
- Tank gauging and dip measurements
- Flow measurement devices (meters, provers)
- Sampling methods: manual, automatic, closed-loop
- Density and specific gravity determination
- Temperature and pressure corrections
- Record keeping and reporting

Day 3: Petroleum Storage and Transfer Operations

- Storage tank types: fixed roof, floating roof, pressurized
- Tank fittings and accessories (vents, gauges, fire suppression)
- Transfer operations: truck loading, marine loading, pipeline pigging
- Pumps, valves, and hoses: operation and inspection
- Spill prevention and containment
- Vapour recovery systems
- Pre-operational checks and safety interlocks

Day 4: Quality Control and Laboratory Testing

- Overview of petroleum product specifications
- Flash point, pour point, and viscosity testing
- Distillation analysis
- Octane and cetane number determination
- Water and sediment detection
- Sulphur content testing
- Sample handling and chain of custody
- Introduction to blending and additive injection

Day 5: Maintenance, Troubleshooting, and Regulatory Compliance

- Preventive maintenance schedules for pumps, valves, and meters
- Troubleshooting common issues: leaks, blockages, calibration drift
- Corrosion monitoring and cathodic protection basics
- Regulatory framework: OHS Act, SANS 10089, SANS 10131
- Environmental management: waste handling, spill reporting
- Documentation: maintenance logs, incident reports, shift handovers
- Course review and assessment

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-0158) 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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