



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

Drilling Operations

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0391 · 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 conduct drilling operations in various industrial contexts. It covers drilling principles, equipment, procedures, and safety protocols to ensure operational excellence and compliance with industry standards.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0391
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 drilling principles and techniques to select appropriate methods for different geological conditions.
- Demonstrate the correct setup, operation, and maintenance of drilling equipment in accordance with manufacturer specifications.
- Analyze drilling data and performance metrics to optimize drilling efficiency and troubleshoot common issues.
- Evaluate and implement safety procedures and risk controls to prevent accidents and environmental incidents during drilling operations.
- Design a drilling plan that incorporates site assessment, equipment selection, and operational sequencing.
- Implement quality and compliance standards, including record-keeping and reporting, to meet regulatory requirements.

WHO SHOULD ATTEND

- This course is designed for individuals entering the drilling industry or those seeking to formalize their skills, including drilling assistants, operators, and technicians in mining, construction, and exploration sectors.

COURSE OUTLINE

Day 1: Drilling Fundamentals and Equipment

- Overview of drilling methods (rotary, percussion, etc.
- Rig components: derrick, drawworks, mud pumps, rotary table, etc.
- Drill bits and their selection criteria
- Drilling fluids: types, functions, and properties
- Casing and cementing basics
- Well control principles and equipment
- Safety and environmental considerations in drilling
- Introduction to drilling data and reporting

Day 2: Advanced Drilling Techniques and Operational Practices

- Directional drilling: techniques, tools, and applications
- Drilling optimization: rate of penetration, hydraulics, and bit selection
- Common drilling problems: lost circulation, stuck pipe, kicks, and their remedies
- Well planning and drilling program implementation
- Drilling data acquisition and interpretation
- Communication and teamwork in drilling operations
- Health, safety, and environment (HSE) management systems
- Emergency response procedures

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	On-Campus	Maseru, Lesotho
01 Oct 2026	02 Oct 2026	On-Campus	Victoria Falls, Zimbabwe
05 Oct 2026	06 Oct 2026	On-Campus	Mbabane, Eswatini
05 Oct 2026	06 Oct 2026	On-Campus	Lusaka, Zambia
06 Oct 2026	07 Oct 2026	On-Campus	Nairobi, Kenya
06 Oct 2026	07 Oct 2026	On-Campus	Bangkok, Thailand
07 Oct 2026	08 Oct 2026	On-Campus	Windhoek, Namibia
08 Oct 2026	09 Oct 2026	On-Campus	Kigali, Rwanda

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-0391) 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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