



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

Drill String Operations Support Skills Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110196 · NQF Level 2 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills and knowledge required to support drill string operations in the oil and gas or mining sectors. It covers the safe handling, inspection, and maintenance of drill string components, as well as the application of relevant safety protocols. The training ensures that personnel can effectively assist in drilling operations while adhering to industry standards and regulations.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110196
Accreditation	SAQA Accredited · NQF Level 2 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to identify and select appropriate drill string components for specific operations.
- Apply correct procedures for handling, inspecting, and storing drill string equipment.
- Implement safety protocols and risk controls during drill string operations.
- Evaluate the condition of drill string components and report defects according to standard procedures.
- Communicate effectively with the drilling team to ensure smooth operational support.
- Perform routine maintenance and cleaning of drill string equipment to prolong service life.

WHO SHOULD ATTEND

- This course is designed for entry-level and experienced drilling assistants, roustabouts, and other support personnel involved in drill string operations.
- It is also suitable for supervisors seeking to enhance their understanding of drill string support tasks.

COURSE OUTLINE

Day 1: Introduction to Drill String Components and Functions

- Overview of drill string systems
- Drill pipe, tool joints, and bottom hole assembly (BHA)
- Drill collars, stabilizers, and reamers
- Functions of each component in drilling operations
- Basic drill string design and selection criteria
- Materials used in drill string components
- Safety considerations when handling drill string components

Day 2: Drill String Handling and Inspection Procedures

- Handling and storage best practices
- Visual inspection techniques for drill pipe and tool joints
- Dimensional inspection using gauges and calipers
- Common defects: fatigue cracks, corrosion, wear, and damage
- Classification of drill pipe based on condition
- Industry standards (API, DS-1)
- Documentation and reporting of inspection results

Day 3: Thread Inspection, Make-up, and Break-out Procedures

- Thread types and specifications (API, premium connections)
- Thread inspection: pitch diameter, taper, thread form
- Thread gauging and calibration
- Make-up procedures: torque, turns, and speed
- Break-out procedures and equipment
- Thread compounds: types, application, and compatibility
- Safety during make-up and break-out operations

Day 4: Drill String Maintenance and Repair Techniques

- Preventive maintenance schedules
- Cleaning and lubrication of threads
- Hardbanding: purpose, types, and application
- Thread repair: rethreading and insert repairs
- Tool joint rebuilding and hardfacing
- Inspection after repair and quality control
- Record keeping for maintenance history

Day 5: Drill String Operations Support and Troubleshooting

- Role of drill string support in drilling operations
- Troubleshooting: twist-offs, washouts, and connection failures
- Data interpretation from inspections and operations
- Recommendations for string design changes or repairs
- Emergency procedures for drill string failures
- Case studies and practical problem-solving
- 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 **8 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 23,000.00	R 23,000.00
1	In-House	R 29,900.00	R 29,900.00
1	On-Campus (Pretoria)	R 34,500.00	R 34,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
03 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Mauritius
03 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
10 Aug 2026	14 Aug 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 QUOTE OR APPLY

- 1. Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 110196) 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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