



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

Supervise The Process Of Small Bore Drilling Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 119536 · NQF Level 3 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips supervisors with the knowledge and skills to oversee small bore drilling operations safely and efficiently. It focuses on planning, coordinating, and controlling drilling activities while ensuring compliance with health, safety, and environmental regulations. Learners will gain the competence to manage teams, monitor drilling processes, and respond to emergencies.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	119536
Accreditation	SAQA Accredited · NQF Level 3 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant legislation, codes of practice, and safety standards to small bore drilling operations.
- Plan and prepare for small bore drilling activities, including resource allocation and risk assessment.
- Coordinate and supervise drilling teams to ensure efficient and safe execution of drilling plans.
- Monitor drilling processes and implement corrective actions to maintain quality and productivity.
- Evaluate drilling performance and compile reports for management and regulatory compliance.
- Demonstrate emergency response procedures and ensure team readiness for incident management.

WHO SHOULD ATTEND

- This course is designed for supervisors, team leaders, and aspiring managers in the mining, quarrying, or construction sectors who are responsible for overseeing small bore drilling operations.

COURSE OUTLINE

Day 1: Introduction to Small Bore Drilling and Regulatory Framework

- Overview of small bore drilling: definitions, equipment, and common uses.
- Legal framework: MHSA, OHS Act, and SANS codes.
- Supervisor duties: planning, coordination, and compliance.
- Introduction to hazard identification and risk assessment (HIRA).
- Safety documentation: permits, checklists, and incident reporting.
- Environmental considerations and waste management.

Day 2: Drilling Equipment and Technology

- Types of small bore rigs: skid-mounted, track-mounted, and handheld.
- Drill string components: rods, bits, reamers, and stabilisers.
- Drilling fluids: functions, types, and handling.
- Power sources: hydraulic, pneumatic, and electric systems.
- Preventive maintenance schedules and record-keeping.
- Common equipment faults and troubleshooting.

Day 3: Pre-Operational Planning and Site Preparation

- Site assessment: ground conditions, utilities, and access.
- Drilling plan development: hole location, depth, and angle.
- Setting up safety barriers, signage, and emergency equipment.
- Communication protocols with team and other contractors.
- Material and equipment logistics.
- Environmental controls: dust suppression and spill containment.

Day 4: Supervising Drilling Operations – Safety and Quality

- Key drilling parameters: RPM, feed pressure, and torque.
- Quality checks: collar position, downhole survey, and sample recovery.
- Safety observation techniques and hazard reporting.
- Managing fatigue and human factors.
- Incident response: first aid, fire, and gas detection.
- Documentation: daily logs, shift reports, and quality records.

Day 5: Ground Support and Hole Stability

- Ground classification: rock mass rating and fracture analysis.
- Casing types and installation methods.
- Grouting techniques: cement, resin, and chemical.
- Wireline and core barrel systems.
- Managing water inflow and artesian conditions.
- Documentation: ground condition logs and support records.

Day 6: Drilling Fluids and Circulation Management

- Functions of drilling fluids: cooling, lubrication, and cuttings removal.
- Fluid types: water-based, oil-based, and polymer.
- Testing: density, viscosity, pH, and filtration.
- Circulation systems: pumps, tanks, and cleaning equipment.
- Lost circulation materials and prevention.

- Environmental compliance: fluid containment and disposal.

Day 7: Sampling and Core Handling

- Core orientation and marking.
- Core boxes: labeling, sealing, and storage.
- Logging: lithology, structure, and RQD.
- Sampling methods: split spoon, bulk, and chip.
- Chain of custody procedures.
- QA/QC: blanks, standards, and duplicates.

Day 8: Blast Hole Drilling and Explosives Interface

- Blast design basics: burden, spacing, and stemming.
- Drilling accuracy: deviation and depth control.
- Hole cleaning and dewatering.
- Communication with blasting team.
- Pre-charging inspection: depth, condition, and dryness.
- Safety protocols: exclusion zones and electrical isolation.

Day 9: Environmental Management and Rehabilitation

- Environmental impact assessment (EIA) basics.
- Dust control: water sprays and covers.
- Noise monitoring and attenuation.
- Water management: containment, treatment, and discharge.
- Waste classification: hazardous and non-hazardous.
- Rehabilitation: backfilling, sealing, and revegetation.

Day 10: Team Leadership and Communication

- Leadership styles and situational management.
- Communication techniques: active listening and feedback.
- Toolbox talks: content and delivery.
- Performance monitoring and coaching.
- Conflict resolution and disciplinary procedures.
- Promoting safety ownership and reporting.

Day 11: Emergency Preparedness and Incident Management

- Emergency planning: scenarios and resources.
- Fire prevention and suppression.
- First aid and rescue procedures.
- Incident investigation: root cause analysis.
- Reporting: forms, timelines, and communication.
- Learning from incidents: sharing lessons.

Day 12: Assessment, Review, and Certification

- Practical assessment: drilling supervision scenario.
- Written test on key concepts.
- Feedback session and Q&A.
- Portfolio of evidence compilation.
- Certification process and SAQA alignment.
- Continuous professional development resources.

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 **15 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 41,000.00	R 41,000.00
1	In-House	R 53,300.00	R 53,300.00
1	On-Campus (Pretoria)	R 61,500.00	R 61,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	18 Aug 2026	On-Campus	Mauritius
04 Aug 2026	19 Aug 2026	On-Campus	Cape Town, South Africa
05 Aug 2026	20 Aug 2026	On-Campus	Dubai, UAE
06 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa
06 Aug 2026	21 Aug 2026	On-Campus	Lagos, Nigeria
07 Aug 2026	24 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	25 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	26 Aug 2026	On-Campus	Dubai, UAE

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 119536) 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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