



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aatikd.co.za · Website: www.aatikd.co.za

COURSE BROCHURE

Mark Shot And Pilot Holes In An Underground Mine Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 119097 · NQF Level 2 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the competencies required to safely and accurately mark shot and pilot holes in an underground mine. It covers the planning, preparation, and execution of marking activities in accordance with mine safety standards and operational requirements.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	119097
Accreditation	SAQA Accredited · NQF Level 2 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant safety and environmental procedures when marking shot and pilot holes.
- Demonstrate the ability to interpret drilling plans and blast designs to identify hole positions.
- Implement marking techniques to accurately position shot and pilot holes according to specifications.
- Analyze ground conditions and adjust marking plans to ensure safe and effective drilling.
- Evaluate the quality of marked holes and make corrections as needed.
- Communicate effectively with team members and supervisors regarding hole marking activities.

WHO SHOULD ATTEND

- This course is designed for underground mine workers, including drill operators, miners, and shift supervisors, who are responsible for marking shot and pilot holes as part of the drilling and blasting cycle.

COURSE OUTLINE

Day 1: Foundations of Marking Shot and Pilot Holes

- Introduction to drilling and blasting in underground mines
- Safety regulations and risk assessment for marking holes
- Types of drill holes: shot holes, pilot holes, and their functions
- Reading mine plans, survey pegs, and blast patterns
- Tools and equipment for marking: paint, tape measures, plumb bobs
- Personal protective equipment (PPE) requirements
- Communication protocols with drill operators and supervisors
- Overview of unit standard 119097 outcomes

Day 2: Practical Techniques for Accurate Marking

- Step-by-step marking of shot holes: spacing, burden, and alignment
- Marking pilot holes: centre lines, collaring points, and orientation
- Using measuring tapes, string lines, and laser distance meters
- Checking hole positions with reference to survey markers
- Adjusting marks due to geological features or obstructions
- Recording marks and reporting to drill crew
- Common errors in marking and how to avoid them
- Practical exercise: mark a simulated blast pattern in a training area

Day 3: Integration, Quality Control, and Assessment

- Final inspection of marked holes: depth, angle, and cleanliness
- Correcting misaligned or incorrectly placed marks
- Communication with drill operators: hand signals and verbal confirmation
- Documentation: marking sheets, shift reports, and sign-offs
- Handover procedures for next shift or blasting team
- Review of safety incidents and near misses related to marking
- Practical assessment: mark shot and pilot holes in a realistic underground setting
- Feedback session and certification requirements

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 **6 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 17,900.00	R 17,900.00
1	In-House	R 23,300.00	R 23,300.00
1	On-Campus (Pretoria)	R 26,800.00	R 26,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
05 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
05 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	12 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	13 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	13 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	14 Aug 2026	On-Campus	Mauritius

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 119097) 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.

Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za