



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

Steep Mining Excavation Support Stability

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 252794 · NQF Level 2 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to safely achieve excavation stability using appropriate support systems in steep mining environments. Participants will learn to assess ground conditions, select and install support mechanisms, and monitor excavation stability to prevent rockfalls and ensure worker safety.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	252794
Accreditation	SAQA Accredited · NQF Level 2 · 3 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply principles of rock mechanics to assess ground conditions in steep mining excavations.
- Select and implement appropriate support systems (e.g., rock bolts, shotcrete, mesh) based on site-specific factors.
- Demonstrate correct installation procedures for temporary and permanent excavation support.
- Monitor excavation stability using instrumentation and visual inspection techniques.
- Evaluate the effectiveness of support systems and recommend corrective actions when instability is detected.

WHO SHOULD ATTEND

- This course is designed for miners, shift supervisors, and safety officers working in underground or open-pit steep mining operations who are responsible for excavation support and ground control.

COURSE OUTLINE

Day 1: Fundamentals of Steep Mining Excavation Support Stability

- Introduction to steep mining excavations and associated hazards.
- Rock mass classification and failure mechanisms.
- Support systems: rock bolts, shotcrete, mesh, and steel sets.
- Design considerations for support in dipping and vertical excavations.
- Monitoring and instrumentation: load cells, extensometers, convergence meters.
- Case studies of support failures and remediation.
- Regulatory requirements and safety standards (e.g., MHSA).
- Practical integration: planning support for a steep decline.

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 **3 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 12,800.00	R 12,800.00
1	In-House	R 16,600.00	R 16,600.00
1	On-Campus (Pretoria)	R 19,200.00	R 19,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	03 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	03 Aug 2026	On-Campus	Lagos, Nigeria
04 Aug 2026	04 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	05 Aug 2026	On-Campus	Mauritius
06 Aug 2026	06 Aug 2026	On-Campus	Cape Town, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	10 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	11 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 252794) 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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