



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

Excavation Stability With Geological Discontinuities And Brows Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110187 · NQF Level 3 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to assess and manage excavation stability in the presence of geological discontinuities and brows. It focuses on identifying potential hazards, implementing control measures, and ensuring safe working practices in surface and underground mining environments.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110187
Accreditation	SAQA Accredited · NQF Level 3 · 4 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 identify geological discontinuities affecting excavation stability.
- Analyze the impact of brows and structural features on excavation safety.
- Evaluate risk factors associated with unstable excavations and recommend control measures.
- Implement monitoring and inspection procedures to detect potential failures.
- Demonstrate correct use of ground support systems and safety protocols.
- Design basic excavation plans considering geological conditions and safety standards.

WHO SHOULD ATTEND

- This course is designed for mine workers, shift supervisors, and safety officers involved in excavation operations in the mining and construction sectors.

COURSE OUTLINE

Day 1: Understanding Geological Discontinuities and Brows Training for Excavation Stability

- Introduction to geological discontinuities: joints, faults, bedding planes, and shear zones
- Effects of discontinuities on excavation stability: wedge failure, toppling, and sliding
- Brows: definition, formation, and stability considerations
- Methods for mapping and assessing discontinuities and brows (scanline surveys, stereographic projections)
- Rock mass classification systems (e.g., RMR, Q-system) and their application
- Support and reinforcement techniques for unstable discontinuities and brows
- Case studies of excavation failures due to discontinuities and brows
- Safety protocols, risk assessment, and regulatory compliance (MHSA, SANS 10208)

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 3**.

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
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	Durban, South Africa
11 Aug 2026	11 Aug 2026	On-Campus	Mauritius
12 Aug 2026	12 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 110187) 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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