



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

Seismic Activity Effects On Rock Mass And Support Units Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 115758 · NQF Level 3 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to understand the effects of seismic activity on rock mass and support units in underground mining environments. Participants will learn to assess seismic risks, evaluate support unit performance, and implement appropriate control measures to ensure workplace safety and operational continuity.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	115758
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

- Analyze the effects of seismic events on rock mass behavior and support unit performance.
- Evaluate the integrity of support units following seismic activity using appropriate inspection techniques.
- Implement corrective measures to restore support unit functionality and ensure ground control.
- Apply seismic monitoring data to assess potential risks and inform support design modifications.
- Demonstrate compliance with relevant safety regulations and industry standards for seismic-prone areas.
- Design a basic response plan for managing rock mass and support units during seismic events.

WHO SHOULD ATTEND

- This course is designed for mining engineers, rock mechanics practitioners, geotechnical engineers, and safety officers working in underground mining operations who are responsible for rock mass stability and support system integrity.

COURSE OUTLINE

Day 1: Seismic Activity Effects On Rock Mass And Support Units

- Introduction to seismicity in South African mines
- Mechanisms of seismic wave propagation and rock mass response
- Impact of seismic events on rock mass integrity and failure modes
- Behaviour of support units (e.g., rock bolts, mesh, shotcrete) under dynamic loading
- Case studies of seismic damage to support systems
- Risk assessment and monitoring techniques for seismic hazards
- Best practices for support design in seismically active areas
- Emergency response and rehabilitation after seismic events

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
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 115758) 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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