



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

Rock Strength Testing Methods Understanding

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 252814 · NQF Level 2 · 2 Credits · 1 Day

COURSE OVERVIEW

This course provides learners with a comprehensive understanding of rock strength properties and the standardised testing methods used in the South African mining and geotechnical industries. Participants will gain the knowledge to interpret test results, apply relevant testing procedures, and ensure safe and efficient rock engineering practices.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	252814
Accreditation	SAQA Accredited · NQF Level 2 · 2 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Explain the fundamental concepts of rock strength, including compressive, tensile, and shear strength.
- Identify and describe standard rock strength testing methods such as uniaxial compressive strength (UCS), point load index, and triaxial testing.
- Apply appropriate testing procedures in accordance with South African and international standards.
- Analyse and interpret test results to assess rock behaviour and support design.
- Evaluate the influence of rock fabric, moisture, and confining pressure on strength test outcomes.
- Demonstrate safe laboratory and field practices during rock strength testing.

WHO SHOULD ATTEND

- This course is designed for geotechnical engineers, mining engineers, rock mechanics technicians, and other professionals involved in rock testing and ground control in the mining and civil engineering sectors.

COURSE OUTLINE

Day 1: Fundamentals of Rock Strength Testing

- Introduction to rock mechanics and rock strength.
- Overview of rock strength testing methods: Uniaxial Compressive Strength (UCS), Point Load Index, Triaxial Compression, Brazilian Tensile Strength.
- Sample selection, preparation, and conditioning.
- Testing equipment and procedures for each method.
- Data recording, calculations, and result interpretation.
- Quality assurance and control in testing.
- Factors influencing rock strength: anisotropy, moisture, scale effects.
- Safety considerations in laboratory and field testing.

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 **2 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
04 Aug 2026	04 Aug 2026	On-Campus	Mauritius
05 Aug 2026	05 Aug 2026	On-Campus	Cape Town, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Dubai, UAE
07 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	10 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	10 Aug 2026	On-Campus	Mauritius
11 Aug 2026	11 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 252814) 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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