



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

Virgin Rock Temperature Measurement Techniques

Health Sciences and Social Services / Preventive Health

Unit Standard 259657 · NQF Level 2 · 2 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the skills to accurately measure virgin rock temperature in mining and geotechnical environments. It covers the selection, use, and maintenance of temperature measurement instruments, as well as interpretation of data for engineering and safety purposes.

Category	Health Sciences and Social Services
Subfield	Preventive Health
Unit Standard	259657
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 principles of heat transfer and the importance of virgin rock temperature in mining operations.
- Select and calibrate appropriate temperature measurement instruments for specific rock types and conditions.
- Demonstrate correct procedures for measuring virgin rock temperature at designated locations.
- Record and interpret temperature data to identify anomalies and assess thermal conditions.
- Apply safety protocols and maintain measurement equipment according to industry standards.
- Analyze temperature data to support engineering decisions related to ventilation, cooling, and ground control.

WHO SHOULD ATTEND

- This course is designed for geotechnical technicians, mining engineers, and environmental monitoring personnel responsible for measuring and recording rock temperatures in underground or surface mining operations.

COURSE OUTLINE

Day 1: Fundamentals of Virgin Rock Temperature Measurement

- Overview of virgin rock temperature and its significance
- Heat flow, thermal gradient, and geothermal concepts
- Types of temperature sensors: thermocouples, RTDs, thermistors
- Borehole preparation and sensor installation techniques
- Measurement procedures: single-point vs. distributed sensing
- Data logging, quality control, and error analysis
- Safety considerations for underground temperature surveys
- Case studies: applications in mine planning and geothermal exploration

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
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
12 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE
13 Aug 2026	13 Aug 2026	On-Campus	Pretoria, South Africa
14 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
17 Aug 2026	17 Aug 2026	On-Campus	Shenzhen, China
18 Aug 2026	18 Aug 2026	On-Campus	Dubai, UAE

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 259657) 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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