



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

Demonstrate Understanding Of The Role And The Processes Of A Laboratory Involved In A Mining Operation Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 119968 · NQF Level 2 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with a comprehensive understanding of the critical role that laboratories play in mining operations, including sample preparation, analysis, and quality control. Participants will gain insight into laboratory processes, safety protocols, and the impact of laboratory results on mining decisions.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	119968
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

- Demonstrate understanding of the laboratory's role in supporting mining operations through sample analysis and quality control.
- Apply knowledge of laboratory processes including sample reception, preparation, analysis, and reporting.
- Analyze the importance of accuracy, precision, and reliability in laboratory results for mining decision-making.
- Evaluate health and safety requirements and protocols specific to mining laboratories.
- Implement quality assurance and quality control procedures to ensure valid laboratory outcomes.
- Demonstrate awareness of relevant legislation, standards, and ethical practices in mining laboratories.

WHO SHOULD ATTEND

- This course is designed for laboratory technicians, mining personnel, and quality assurance staff who need to understand laboratory operations within the mining context.
- It is also suitable for new entrants to the mining industry seeking foundational knowledge.

COURSE OUTLINE

Day 1: Understanding the Role and Processes of a Mining Laboratory

- Introduction to mining laboratories: types and functions.
- Overview of sample collection, preparation, and analysis processes.
- Key analytical techniques used in mining (e.g., fire assay, XRF, ICP).
- Quality control and assurance in laboratory procedures.
- Safety regulations and best practices in mining laboratories.
- Data reporting and interpretation for operational decisions.
- Case study: How laboratory results impact mining production.
- Summary and assessment of understanding.

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	Johannesburg, South Africa
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

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 119968) 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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