



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aatikd.co.za · Website: www.aatikd.co.za

COURSE BROCHURE

Analyse A Mixture Of Coal Dust And Stone Dust Sample By Means Of Colorimetric Method And Recommend Appropriate Remedial Action Training

Health Sciences and Social Services / Preventive Health

Unit Standard 120323 · NQF Level 2 · 2 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the skills to analyse a mixture of coal dust and stone dust samples using the colorimetric method, enabling them to assess the inert dust content in coal mines. The training covers safe sampling procedures, accurate analysis, and interpretation of results to recommend appropriate remedial actions that mitigate explosion risks and ensure compliance with mine health and safety regulations.

Category	Health Sciences and Social Services
Subfield	Preventive Health
Unit Standard	120323
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 the colorimetric method for analysing coal dust and stone dust mixtures.
- Prepare and handle samples safely according to standard operating procedures.
- Apply the colorimetric method to determine the percentage of incombustible content in a sample.
- Interpret test results to evaluate compliance with statutory inert dust requirements.
- Recommend appropriate remedial actions based on analysis findings.
- Document and report analysis results in accordance with organisational procedures.

WHO SHOULD ATTEND

- This course is designed for mine health and safety officers, ventilation technicians, and laboratory personnel responsible for monitoring and controlling coal dust explosion hazards in underground coal mines.

COURSE OUTLINE

Day 1: Colorimetric Analysis of Coal Dust and Stone Dust Mixtures

- Introduction to coal dust and stone dust mixtures in mining environments.
- Principles of colorimetric analysis: theory and application.
- Sample collection, preparation, and handling procedures.
- Step-by-step colorimetric testing method using standard reagents.
- Interpretation of color change and quantitative analysis.
- Determining the ratio of coal dust to stone dust.
- Identifying deficiencies and recommending remedial actions (e.g., additional stone dust).
- Quality control, safety protocols, and documentation requirements.

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 9,400.00	R 9,400.00
1	In-House	R 12,200.00	R 12,200.00
1	On-Campus (Pretoria)	R 14,100.00	R 14,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
21 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa
24 Aug 2026	24 Aug 2026	On-Campus	Durban, South Africa
25 Aug 2026	25 Aug 2026	On-Campus	Shenzhen, China
26 Aug 2026	26 Aug 2026	On-Campus	Harare, Zimbabwe
27 Aug 2026	27 Aug 2026	On-Campus	Bangkok, Thailand
28 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
28 Aug 2026	28 Aug 2026	On-Campus	Abu Dhabi, UAE
31 Aug 2026	31 Aug 2026	On-Campus	Shenzhen, China

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 120323) 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.

Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za