



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 Dust And Particulate Matter Analysis In Water Training

Health Sciences and Social Services / Preventive Health

Unit Standard 116515 · NQF Level 3 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to collect, prepare, and analyze rock dust and particulate matter in water samples. It covers sampling techniques, analytical methods, and interpretation of results to ensure water quality compliance with South African standards.

Category	Health Sciences and Social Services
Subfield	Preventive Health
Unit Standard	116515
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

- Apply appropriate sampling techniques to collect representative water samples containing rock dust and particulate matter.
- Analyze water samples using standardized methods to determine the concentration and composition of rock dust and particulates.
- Evaluate analytical results against relevant water quality guidelines and standards.
- Demonstrate proper use and maintenance of laboratory equipment for particulate analysis.
- Interpret data to identify potential sources of contamination and recommend corrective actions.
- Implement quality control procedures to ensure accuracy and reliability of analytical results.

WHO SHOULD ATTEND

- This course is designed for environmental health practitioners, water quality technicians, laboratory analysts, and mining or industrial personnel responsible for monitoring water contamination from rock dust and particulates.

COURSE OUTLINE

Day 1: Fundamentals of Rock Dust and Particulate Matter Analysis in Water

- Introduction to rock dust and particulate matter in water: definitions, sources, and environmental impact.
- Sampling protocols: selection of sampling points, equipment, and preservation techniques.
- Gravimetric analysis: filtration, drying, and weighing procedures for total suspended solids (TSS).
- Particle size distribution: sieving and laser diffraction methods.
- Quality control: blanks, duplicates, and calibration standards.
- Data recording and reporting: units, significant figures, and documentation.
- Health and safety considerations: handling of samples and chemicals.
- Overview of regulatory standards (SANS 241, DWAF guidelines).

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
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 116515) 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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