



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

Turbidimeter Use for Particulate Matter in Water

Health Sciences and Social Services / Preventive Health

Unit Standard 259605 · NQF Level 2 · 2 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to accurately determine the amount of particulate matter in water using a turbidimeter. Participants will understand the principles of turbidity measurement, perform calibration and maintenance of the instrument, and interpret results for water quality assessment. The course ensures compliance with South African water quality standards and promotes safe laboratory practices.

Category	Health Sciences and Social Services
Subfield	Preventive Health
Unit Standard	259605
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 turbidity and its significance as an indicator of particulate matter in water.
- Calibrate a turbidimeter according to manufacturer specifications and standard procedures.
- Prepare water samples and operate a turbidimeter to measure turbidity accurately.
- Analyze turbidity data to determine the level of particulate matter and assess water quality.
- Perform routine maintenance and troubleshooting of a turbidimeter to ensure reliable performance.
- Apply relevant safety protocols and quality control measures during turbidity testing.

WHO SHOULD ATTEND

- This course is designed for laboratory technicians, water quality analysts, and environmental health practitioners who are responsible for monitoring and testing water samples in municipal, industrial, or research settings.

COURSE OUTLINE

Day 1: Turbidimeter Principles and Operation

- Introduction to turbidity: definition, sources, and environmental significance
- Principles of light scattering: nephelometric vs. turbidimetric methods
- Turbidimeter components: light source, detector, sample cell, and optics
- Calibration standards and procedures: formazin, SDVB, and user-prepared standards
- Sample handling: collection, preservation, and degassing techniques
- Quality assurance: blank checks, interferences, and data validation
- Regulatory framework: SANS 241 and DWAF guidelines for turbidity in drinking water

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	Pretoria, South Africa
11 Aug 2026	11 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	12 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	12 Aug 2026	On-Campus	Mauritius
13 Aug 2026	13 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	17 Aug 2026	On-Campus	Abu Dhabi, UAE
18 Aug 2026	18 Aug 2026	On-Campus	Durban, 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 259605) 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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