



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

Water Sampling and Monitoring

Custom Courses / Water & Environmental Management

Unit Standard AATICD-0208 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills to collect, handle, and preserve water samples from various sources for chemical, microbiological, and physical analysis. It covers sampling techniques, chain of custody, and quality assurance to ensure compliance with SANS 241 and other regulatory standards.

Category	Custom Courses
Subfield	Water & Environmental Management
Unit Standard	AATICD-0208
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply correct sampling techniques for different water sources (surface, groundwater, treated supply)
- Implement chain of custody procedures and complete sampling documentation accurately
- Analyze sample preservation and transport requirements to maintain sample integrity
- Evaluate sampling equipment and select appropriate containers and preservatives
- Demonstrate aseptic technique for microbiological sampling
- Interpret sampling plans and adjust based on site conditions and monitoring objectives

WHO SHOULD ATTEND

- Water quality technicians, environmental health practitioners, and laboratory sampling personnel responsible for routine water monitoring in municipal, industrial, or environmental settings.

COURSE OUTLINE

Day 1: Introduction to Water Sampling and Monitoring

- Overview of water quality monitoring
- Types of water sources: surface water, groundwater, wastewater
- Basic water quality parameters: physical, chemical, biological
- Introduction to South African water quality guidelines and legislation (e.g., SANS 241, National Water Act)
- Health and safety considerations for sampling

Day 2: Sampling Techniques and Equipment

- Sampling strategies: grab, composite, depth-integrated
- Equipment for sampling: bottles, pumps, bailers, samplers
- Sample collection protocols for surface water, groundwater, and wastewater
- Field measurements: pH, temperature, conductivity, dissolved oxygen
- Sample preservation and storage requirements

Day 3: Sample Handling, Preservation, and Transport

- Preservation methods: chemical addition, refrigeration, filtration
- Holding times and temperature control
- Chain of custody procedures and documentation
- Sample labelling and packaging
- Quality assurance/quality control (QA/QC) in sampling

Day 4: Field Testing and In-Situ Monitoring

- Calibration of field meters (pH, EC, DO, turbidity)
- In-situ monitoring techniques
- Use of multi-parameter probes and data loggers
- Field test kits for chemical parameters
- Data recording and verification

Day 5: Data Management, Reporting, and Practical Integration

- Data handling and statistical basics
- Reporting formats and compliance requirements
- Common pitfalls in sampling and how to avoid them
- Review of practical sessions and feedback
- Final assessment and course wrap-up

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 **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	21 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
24 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
31 Aug 2026	04 Sep 2026	On-Campus	Lusaka, Zambia
31 Aug 2026	04 Sep 2026	On-Campus	London, UK

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 AATICD-0208) 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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