



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 Treatment Process Monitoring And Coordination Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 115892 · NQF Level 4 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the competencies to monitor and coordinate water treatment processes effectively within a municipal or industrial context. It focuses on ensuring compliance with South African water quality standards, optimizing plant operations, and responding to process deviations.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	115892
Accreditation	SAQA Accredited · NQF Level 4 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply water treatment process monitoring techniques to ensure compliance with quality specifications.
- Analyze process data to identify deviations and implement corrective actions.
- Evaluate the effectiveness of treatment processes and recommend improvements.
- Coordinate water treatment activities across shifts and teams to maintain continuous operation.
- Implement safety and environmental procedures during water treatment processes.
- Demonstrate the ability to interpret and apply relevant legislation and standards.

WHO SHOULD ATTEND

- This course is designed for water treatment plant operators, process controllers, and supervisors who are responsible for monitoring and coordinating water treatment operations.

COURSE OUTLINE

Day 1: Fundamentals of Water Treatment Process Monitoring

- Overview of water treatment processes (coagulation, flocculation, sedimentation, filtration, disinfection).
- Water quality parameters: pH, turbidity, chlorine residual, conductivity, and microbiological indicators.
- Monitoring equipment: sensors, probes, online analysers, and sampling techniques.
- Data recording and interpretation: logbooks, trends, and control charts.
- Introduction to process control: set points, alarms, and corrective actions.
- Coordination roles: communication between operators, laboratory, and management.

Day 2: Advanced Monitoring and Coordination for Process Optimisation

- Advanced monitoring: real-time sensors, SCADA systems, and remote telemetry.
- Data analysis: trend analysis, statistical process control, and troubleshooting.
- Chemical dosing optimisation: jar testing, dose-response curves, and feedback loops.
- Coordination in practice: shift handovers, incident reporting, and multi-team collaboration.
- Regulatory compliance: SANS 241, drinking water quality standards, and reporting requirements.
- Case studies: common process upsets and coordinated corrective actions.
- Practical exercise: simulate a process deviation and coordinate a response.

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 **5 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 15,400.00	R 15,400.00
1	In-House	R 20,000.00	R 20,000.00
1	On-Campus (Pretoria)	R 23,100.00	R 23,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
11 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	12 Aug 2026	On-Campus	Mauritius
13 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
13 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
13 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
17 Aug 2026	18 Aug 2026	On-Campus	Pretoria, South Africa
17 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 115892) 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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