



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 Purification Principles And Treatment Methods Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 113937 · NQF Level 1 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the principles and methods of water purification, enabling them to understand and apply treatment processes for safe drinking water. Participants will gain the knowledge to operate water treatment plants effectively and ensure compliance with South African water quality standards.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	113937
Accreditation	SAQA Accredited · NQF Level 1 · 4 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply fundamental principles of water purification to identify appropriate treatment methods for different water sources.
- Demonstrate the operation of common water treatment processes including coagulation, flocculation, sedimentation, filtration, and disinfection.
- Analyze water quality parameters and interpret test results to adjust treatment processes accordingly.
- Evaluate the effectiveness of treatment methods in removing contaminants and meeting SANS 241 drinking water standards.
- Implement safety protocols and regulatory compliance measures in water purification operations.
- Design a basic water treatment system for a given scenario considering resource constraints and quality requirements.

WHO SHOULD ATTEND

- Ideal for water treatment plant operators, process controllers, environmental health practitioners, and technicians responsible for water purification in municipal, industrial, or private settings.

COURSE OUTLINE

Day 1: Water Purification Principles and Treatment Methods

- Overview of water purification: goals, standards, and regulations (SANS 241).
- Water quality parameters: physical, chemical, and microbiological contaminants.
- Pre-treatment processes: screening, sedimentation, and coagulation/flocculation.
- Filtration methods: rapid sand filtration, slow sand filtration, and membrane filtration.
- Disinfection techniques: chlorination, UV treatment, and ozonation.
- Advanced treatment: activated carbon, ion exchange, and reverse osmosis.
- Treatment plant layout and process flow diagrams.
- Operational monitoring: turbidity, pH, chlorine residual, and microbial testing.

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 1**.

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
05 Aug 2026	05 Aug 2026	On-Campus	Mauritius
06 Aug 2026	06 Aug 2026	On-Campus	Cape Town, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	10 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	11 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	11 Aug 2026	On-Campus	Mauritius
12 Aug 2026	12 Aug 2026	On-Campus	Cape Town, South Africa
13 Aug 2026	13 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 113937) 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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