



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 Methods Equipment And Purposes Explained Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 116377 · NQF Level 4 · 4 Credits · 1 Day

COURSE OVERVIEW

This course provides a comprehensive understanding of water treatment methods, equipment, and their purposes. Participants will learn to identify different treatment processes, operate relevant equipment safely, and apply these methods to ensure water quality compliance. The training equips learners with practical skills to maintain and troubleshoot water treatment systems in industrial and municipal settings.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	116377
Accreditation	SAQA Accredited · NQF Level 4 · 4 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply various water treatment methods including coagulation, flocculation, sedimentation, filtration, and disinfection to achieve desired water quality.
- Operate and maintain water treatment equipment such as pumps, valves, chemical dosing systems, and filtration units according to standard procedures.
- Analyze water quality parameters and interpret test results to adjust treatment processes effectively.
- Evaluate the purpose and function of each treatment stage in a water treatment plant.
- Implement safety protocols and emergency procedures when handling chemicals and operating equipment.
- Demonstrate troubleshooting skills to identify and resolve common operational issues in water treatment systems.

WHO SHOULD ATTEND

- This course is designed for water treatment plant operators, process technicians, maintenance personnel, and environmental health officers who are responsible for the operation, monitoring, or management of water treatment facilities.

COURSE OUTLINE

Day 1: Water Treatment Methods, Equipment and Purposes Explained

- Introduction to water treatment: sources, contaminants, and quality standards
- Physical treatment methods: screening, sedimentation, filtration
- Chemical treatment methods: coagulation, flocculation, disinfection
- Biological treatment methods: activated sludge, trickling filters
- Equipment overview: pumps, clarifiers, filters, chlorinators
- Purpose of treatment: removal of pathogens, chemicals, and turbidity
- Operational considerations: maintenance, safety, and monitoring
- Case studies: application of treatment methods in South African context

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 4**.

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 116377) 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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