



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

Wastewater Treatment Processes Knowledge And Skills Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 115901 · NQF Level 3 · 4 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills required to understand and apply wastewater treatment processes in a municipal or industrial context. It covers the fundamental principles, operational procedures, and regulatory requirements for effective wastewater treatment, ensuring environmental compliance and public health protection.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	115901
Accreditation	SAQA Accredited · NQF Level 3 · 4 Credits
Duration	3 days
Training Method	On-Campus
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate understanding of the principles of wastewater treatment processes.
- Apply appropriate treatment methods for different types of wastewater.
- Monitor and control key process parameters to ensure efficient operation.
- Analyze and interpret test results to assess treatment performance.
- Implement health, safety, and environmental procedures in wastewater treatment.
- Evaluate the impact of wastewater discharge on the environment and public health.

WHO SHOULD ATTEND

- This course is designed for process controllers, plant operators, environmental health practitioners, and technicians involved in wastewater treatment operations.
- It is also suitable for individuals seeking to enter the water and wastewater sector.

COURSE OUTLINE

Day 1: Introduction to Wastewater Treatment and Regulatory Framework

- Overview of wastewater sources and characteristics
- The water cycle and the need for treatment
- South African water quality legislation (NWA, SANS 241, Water Services Act)
- Basic wastewater treatment processes: physical, chemical, biological
- Introduction to treatment plant layout and unit processes
- Health and safety in wastewater treatment plants

Day 2: Detailed Process Operations and Monitoring

- Primary treatment: screening, grit removal, primary sedimentation
- Secondary treatment: activated sludge process, trickling filters, oxidation ponds
- Tertiary treatment: disinfection (chlorination, UV), nutrient removal
- Process control parameters and their significance
- Sampling techniques and on-site testing (DO, pH, turbidity)
- Troubleshooting common operational problems

Day 3: Advanced Topics, Sludge Management, and Practical Integration

- Sludge handling: thickening, digestion, dewatering, disposal
- Advanced treatment technologies and their applications
- Energy efficiency and sustainability in wastewater treatment
- Plant data interpretation and process optimization
- Record-keeping, reporting, and regulatory compliance
- Emergency response and contingency planning

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 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 9,800.00	R 9,800.00
1	In-House	R 12,700.00	R 12,700.00
1	On-Campus (Pretoria)	R 14,700.00	R 14,700.00

UPCOMING SESSIONS

Start	End	Method	Venue
31 Jul 2026	31 Jul 2026	On-Campus	Lagos, Nigeria
03 Aug 2026	03 Aug 2026	On-Campus	Mauritius
04 Aug 2026	04 Aug 2026	On-Campus	Cape Town, South Africa
05 Aug 2026	05 Aug 2026	On-Campus	Dubai, UAE
06 Aug 2026	06 Aug 2026	On-Campus	Pretoria, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Lagos, Nigeria
07 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	10 Aug 2026	On-Campus	Cape Town, 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 115901) 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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