



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Wastewater Reticulation System Construction Operation And Maintenance Planning Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 115967 · NQF Level 4 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the competencies required to plan, construct, operate, and maintain wastewater reticulation systems. It covers the entire lifecycle from system design and construction to ongoing operation and maintenance planning, ensuring compliance with South African regulations and industry best practices.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	115967
Accreditation	SAQA Accredited · NQF Level 4 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply principles of wastewater reticulation system design and construction to ensure efficient and compliant infrastructure.
- Analyze operational requirements and develop maintenance plans for wastewater reticulation systems.
- Evaluate system performance and identify corrective actions to optimize operation and extend asset life.
- Design a comprehensive maintenance schedule incorporating preventive, predictive, and corrective strategies.
- Implement construction and commissioning procedures for new reticulation components.
- Demonstrate adherence to health, safety, and environmental regulations during construction and operation.

WHO SHOULD ATTEND

- This course is designed for civil engineers, construction managers, wastewater treatment plant operators, and maintenance planners involved in the development and management of wastewater reticulation infrastructure.

COURSE OUTLINE

Day 1: Introduction to Wastewater Reticulation Systems

- Overview of wastewater management
- SAQA unit standard 115967 requirements
- National Water Act and municipal bylaws
- System components: pipes, manholes, pumps, treatment works
- Health, safety and environmental considerations
- Introduction to planning documentation

Day 2: Construction Planning and Design Principles

- Reading civil engineering drawings
- Hydraulic design calculations
- Pipe material selection (PVC, HDPE, concrete)
- Trenching, bedding and backfilling techniques
- Construction risk assessment and mitigation
- Quality assurance during construction

Day 3: Construction Operations and Implementation

- Site establishment and mobilisation
- Pipe laying and jointing procedures
- Manhole and chamber construction
- Pump station installation
- Construction supervision techniques
- Progress reporting and as-built drawings

Day 4: System Operation and Maintenance Planning

- Routine maintenance procedures
- CCTV inspection and condition assessment
- Pump maintenance and calibration
- Blockage identification and clearance
- Spare parts inventory management
- Energy efficiency in system operation

Day 5: Integrated Planning and Practical Application

- Lifecycle cost analysis
- Asset management frameworks
- Integration of GIS and asset registers
- Budget planning and resource allocation
- Stakeholder communication strategies
- Final assessment and course review

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 **8 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 23,000.00	R 23,000.00
1	In-House	R 29,900.00	R 29,900.00
1	On-Campus (Pretoria)	R 34,500.00	R 34,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
03 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Mauritius
03 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
10 Aug 2026	14 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 115967) 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.

Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za