



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

Connecting Sewerage Systems To Public Wastewater Infrastructure Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 115882 · NQF Level 3 · 7 Credits · 4 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to safely and effectively connect sewerage systems to public wastewater infrastructure. It covers relevant regulations, procedures, and best practices to ensure compliance and environmental protection.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	115882
Accreditation	SAQA Accredited · NQF Level 3 · 7 Credits
Duration	4 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant regulations and bylaws when connecting sewerage systems to public wastewater infrastructure.
- Demonstrate safe work practices and use of personal protective equipment during sewer connection tasks.
- Analyze site conditions to determine appropriate connection methods and materials.
- Implement proper excavation, pipe laying, and jointing techniques for sewer connections.
- Evaluate connection integrity through testing and inspection procedures.
- Design basic sewer connection layouts in compliance with municipal standards.

WHO SHOULD ATTEND

- This training is designed for plumbers, construction workers, municipal infrastructure technicians, and anyone involved in the installation or maintenance of sewer connections.

COURSE OUTLINE

Day 1: Introduction to Sewerage Systems and Regulatory Framework

- Overview of sewerage systems: gravity, pressure, and vacuum systems.
- Key legislation: Water Services Act, National Water Act, SANS 10400.
- Stakeholder roles: municipalities, developers, plumbers, and engineers.
- Health and safety: hazards, PPE, and safe work practices.
- Environmental impact: preventing pollution and protecting water resources.
- Introduction to public wastewater infrastructure: treatment plants, pump stations, and mains.

Day 2: Planning and Design of Sewer Connections

- Reading and interpreting sewer layout drawings.
- Hydraulic principles: flow rates, pipe slopes, and minimum cover.
- Pipe materials: PVC, concrete, HDPE – properties and applications.
- Fittings and junctions: bends, tees, inspection eyes, and manholes.
- Permit requirements: application forms, fees, and approvals.
- Design considerations: property boundaries, existing infrastructure, and future expansion.
- Case study: planning a typical residential sewer connection.

Day 3: Construction and Installation Techniques

- Excavation safety: shoring, sloping, and trench boxes.
- Pipe laying procedures: bedding material, alignment, and gradient checks.
- Jointing methods: solvent cement, rubber ring, and electrofusion.
- Manhole construction: precast vs. cast-in-situ, benching, and covers.
- Inspection chambers: purpose, location, and installation.
- Testing: air test, water test, and CCTV inspection.
- Backfilling and compaction: materials, layers, and compaction testing.
- Site safety and traffic management during installation.

Day 4: Commissioning, Maintenance, and Troubleshooting

- Commissioning checklist: flow testing, documentation, and approval.
- Handover procedures: as-built drawings, warranties, and records.
- Common faults: blockages, leaks, root intrusion, and pipe breaks.
- Troubleshooting techniques: rodding, jetting, and CCTV inspection.
- Preventive maintenance: cleaning schedules and inspections.
- Disconnection procedures: capping, plugging, and abandonment.
- Emergency response: overflow containment and repair protocols.
- Final assessment and course wrap-up.

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 **7 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 20,500.00	R 20,500.00
1	In-House	R 26,600.00	R 26,600.00
1	On-Campus (Pretoria)	R 30,800.00	R 30,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
11 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	20 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	20 Aug 2026	On-Campus	Pretoria, 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 115882) 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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