



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

Install Test And Maintain Above Ground Drainage Systems Training

Physical Planning and Construction / Building Construction

Unit Standard 119057 · NQF Level 2 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips learners with the skills to install, test, and maintain above-ground drainage systems in compliance with South African building regulations and safety standards. It covers the practical application of plumbing principles, system testing procedures, and maintenance techniques to ensure reliable and safe drainage infrastructure.

Category	Physical Planning and Construction
Subfield	Building Construction
Unit Standard	119057
Accreditation	SAQA Accredited · NQF Level 2 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to install above-ground drainage systems according to specifications and safety regulations.
- Apply testing procedures to verify the integrity and functionality of installed drainage systems.
- Analyze common faults and implement corrective maintenance on above-ground drainage systems.
- Evaluate system performance against design standards and regulatory requirements.
- Implement preventive maintenance schedules to extend the lifespan of drainage systems.
- Demonstrate safe work practices and compliance with occupational health and safety legislation.

WHO SHOULD ATTEND

- This course is designed for plumbers, construction workers, and maintenance technicians who are responsible for installing or servicing above-ground drainage systems in residential, commercial, or industrial settings.

COURSE OUTLINE

Day 1: Introduction to Above Ground Drainage Systems

- Overview of above ground drainage systems (stormwater, wastewater).
- South African regulations: SANS 10400, Occupational Health and Safety Act.
- Key components: pipes, fittings, traps, vents, and fixtures.
- Reading drainage system drawings and symbols.
- Safety protocols: PPE, safe handling, and risk assessment.

Day 2: Materials and Tools for Drainage Installation

- Pipe materials: PVC, uPVC, HDPE, cast iron – properties and applications.
- Fittings: bends, junctions, reducers, and couplings.
- Tools: pipe cutters, saws, levels, measuring tapes, and solvent cement applicators.
- Jointing techniques: solvent welding, mechanical joints, and compression fittings.
- Material handling and storage on site.

Day 3: Installation of Above Ground Drainage Systems

- Setting out pipe routes and fall (gradient) requirements.
- Pipe support spacing and fixing methods.
- Installing vertical stacks and horizontal branches.
- Connecting sanitary fixtures: WCs, basins, sinks, and urinals.
- Installing traps and vents to prevent siphoning and odors.

Day 4: Testing and Commissioning Drainage Systems

- Water test: plugging outlets, filling system, and checking for leaks.
- Air test: using a manometer and air pump.
- Smoke testing for odor and leakage detection.
- Rectifying faults: rejoining, replacing fittings.
- Recording test results and completing certificates.

Day 5: Maintenance of Above Ground Drainage Systems

- Inspection procedures: visual checks, CCTV surveys.
- Common issues: blockages, leaks, corrosion, and joint failure.
- Mechanical cleaning: rods, plungers, and drain snakes.
- Hydro-jetting and chemical cleaning (safety precautions).
- Replacement of pipes, fittings, and seals.

Day 6: Advanced Applications and Troubleshooting

- Designing branch connections and extensions.
- Troubleshooting persistent odors, gurgling, and slow drainage.
- Understanding venting principles: re-venting, air admittance valves.
- Working with large diameter pipes and chemical waste systems.
- Adapting to site constraints: retrofitting in existing buildings.

Day 7: Practical Integration and Assessment

- Practical project: install a complete branch system with fixtures.
- Conduct all tests and rectify faults.
- Perform maintenance tasks on a simulated system.
- Complete job safety analysis and risk assessment.

- Final assessment: theory and practical evaluation.

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 **10 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 28,200.00	R 28,200.00
1	In-House	R 36,700.00	R 36,700.00
1	On-Campus (Pretoria)	R 42,300.00	R 42,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
05 Aug 2026	13 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	14 Aug 2026	On-Campus	Mauritius
07 Aug 2026	17 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	18 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	19 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	20 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	20 Aug 2026	On-Campus	Mauritius
13 Aug 2026	21 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 119057) 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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