



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

On Site Sanitation Systems Operation Maintenance And Technical Support Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 115965 · NQF Level 3 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills to operate, maintain, and provide technical support for on-site sanitation systems. It focuses on ensuring safe and efficient system performance in compliance with South African health and environmental regulations.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	115965
Accreditation	SAQA Accredited · NQF Level 3 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply operational procedures to start up, monitor, and shut down on-site sanitation systems safely.
- Implement routine maintenance schedules to prevent system failures and extend equipment lifespan.
- Diagnose common faults in on-site sanitation systems using systematic troubleshooting techniques.
- Analyze system performance data to identify inefficiencies and recommend corrective actions.
- Demonstrate compliance with relevant health, safety, and environmental legislation during all tasks.
- Evaluate technical support requests and provide effective solutions to end-users.

WHO SHOULD ATTEND

- This course is designed for technicians, maintenance personnel, and field support staff responsible for the operation and upkeep of on-site sanitation systems in residential, commercial, or municipal settings.

COURSE OUTLINE

Day 1: Introduction to On-Site Sanitation Systems and Regulatory Framework

- Overview of on-site sanitation systems: septic tanks, conservancy tanks, and VIP latrines.
- South African regulatory framework: SANS 10400, Water Services Act, and local by-laws.
- Health and environmental implications of inadequate sanitation.
- Site assessment factors: soil type, groundwater level, and space constraints.
- System components and basic function of each.
- Introduction to operation and maintenance principles.

Day 2: System Design, Installation, and Commissioning

- Design parameters: tank sizing, pipe gradients, and ventilation requirements.
- Installation best practices for septic tanks and soakaways.
- Commissioning steps: water testing, flow checks, and system balancing.
- Quality control during installation: inspection of joints, seals, and structural integrity.
- Documentation and record-keeping for new systems.
- Troubleshooting installation issues.

Day 3: Routine Operation and Monitoring

- Daily inspection routines: visual checks, odor detection, and flow observation.
- Monitoring parameters: sludge accumulation, scum layer, and effluent clarity.
- Maintenance tasks: desludging schedules, pipe cleaning, and vent maintenance.
- Logbook management and reporting.
- Operational troubleshooting: blockages, odors, and overflow prevention.
- Safety protocols during routine operations.

Day 4: Maintenance, Repairs, and Technical Support

- Preventive maintenance: pump servicing, valve checks, and structural inspections.
- Corrective maintenance: repairing leaks, replacing seals, and unblocking pipes.
- Fault diagnosis: using flow tests, dye tests, and CCTV inspection.
- Technical support: remote troubleshooting and on-site assistance.
- Spare parts management: stock levels, sourcing, and storage.
- Emergency response procedures for system failures.

Day 5: Advanced Applications, Sustainability, and Competency Assessment

- Innovative systems: waterless urinals, composting toilets, and greywater treatment.
- Sustainability considerations: water reuse, nutrient recovery, and energy efficiency.
- Developing O&M; plans: scheduling, resource allocation, and contingency planning.
- Case studies: troubleshooting complex systems and community management.
- Written assessment covering theory and regulations.
- Practical assessment: hands-on operation, maintenance, and fault-finding.
- Course wrap-up and certification requirements.

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 3**.

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 115965) 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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