



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

Canal Operation and Maintenance Assistance

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 254056 · NQF Level 2 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the practical skills and knowledge required to assist in the safe and efficient operation and maintenance of canals. It covers routine inspection, cleaning, minor repairs, and adherence to water management protocols, ensuring learners can support canal infrastructure reliability and environmental compliance.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	254056
Accreditation	SAQA Accredited · NQF Level 2 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safety procedures and use personal protective equipment when working on or near canals.
- Demonstrate routine inspection techniques to identify blockages, erosion, or structural damage.
- Implement basic maintenance tasks such as debris removal, vegetation control, and minor concrete repairs.
- Analyze water flow conditions and adjust control structures (sluices, gates) as instructed.
- Record maintenance activities and report anomalies to supervisors using standard forms.
- Evaluate environmental impacts and apply measures to prevent pollution or habitat disturbance.

WHO SHOULD ATTEND

- This course is designed for entry-level workers, maintenance assistants, and operators involved in canal systems within irrigation, water supply, or stormwater management contexts in South Africa.

COURSE OUTLINE

Day 1: Introduction to Canal Systems and Maintenance Fundamentals

- Overview of canal systems: types, components, and purposes
- Canal hydraulics: flow, levels, and control structures
- Common canal problems: siltation, erosion, leaks, blockages
- Maintenance planning: schedules, inspections, and record-keeping
- Safety in canal operations: hazards, PPE, and emergency procedures
- Tools and equipment for canal maintenance
- Introduction to water quality and environmental considerations

Day 2: Canal Operation Procedures and Practical Maintenance Techniques

- Operation of control structures: gates, valves, and weirs
- Flow regulation and water level management
- Routine maintenance: debris removal, weed control, and silt removal
- Repair techniques for leaks, cracks, and erosion damage
- Inspection procedures: visual checks, measuring tools, and documentation
- Record-keeping and reporting for maintenance activities
- Team coordination and communication during maintenance work

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 **5 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 15,400.00	R 15,400.00
1	In-House	R 20,000.00	R 20,000.00
1	On-Campus (Pretoria)	R 23,100.00	R 23,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	05 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	05 Aug 2026	On-Campus	Mauritius
04 Aug 2026	05 Aug 2026	On-Campus	Lagos, Nigeria
06 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
06 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
06 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	11 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	11 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 254056) 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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