



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

Water Reticulation Concrete Work and Brick Masonry

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 254055 · NQF Level 2 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to construct water reticulation concrete work and brick masonry in compliance with industry standards. Participants will learn to interpret engineering drawings, prepare materials, and execute concrete and masonry tasks essential for water reticulation systems. The training ensures safe and quality workmanship in a construction environment.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	254055
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

- Interpret and apply specifications and engineering drawings for water reticulation concrete and masonry structures.
- Prepare concrete mixes and construct formwork, reinforcement, and concrete elements according to standards.
- Lay bricks and blocks to construct water reticulation structures such as manholes, channels, and retaining walls.
- Apply quality control measures to ensure concrete and masonry work meets required specifications.
- Demonstrate safe working practices and comply with health and safety regulations on construction sites.

WHO SHOULD ATTEND

- This course is designed for construction workers, artisans, and supervisors involved in water reticulation projects.
- It is also suitable for individuals seeking to formalize their skills in concrete and brick masonry within the water infrastructure sector.

COURSE OUTLINE

Day 1: Foundations of Water Reticulation Concrete Work and Brick Masonry

- Overview of water reticulation systems and components
- Materials: cement, aggregates, reinforcement, bricks, mortar
- Tools and equipment: mixers, trowels, levels, shovels
- Safety in construction: PPE, site hazards, safe handling of materials
- Quality standards: SANS 1200, SANS 2001, and relevant specifications
- Foundation preparation: excavation, compaction, blinding
- Formwork construction for concrete elements
- Introduction to brick masonry: types of bricks, bonding patterns

Day 2: Practical Application and Quality Control in Water Reticulation Structures

- Concrete mixing: proportions, slump test, workability
- Placing and compaction: vibration, avoiding segregation
- Curing methods: water, membrane, wet hessian
- Brick masonry construction: laying, jointing, bonding
- Integration with pipework: collars, sleeves, anchors
- Quality control: dimensional tolerance, level, plumb
- Defects: cracking, efflorescence, honeycombing
- Remedial actions and finishing

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
03 Aug 2026	04 Aug 2026	On-Campus	Dubai, UAE
03 Aug 2026	04 Aug 2026	On-Campus	Mauritius
03 Aug 2026	04 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	06 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	06 Aug 2026	On-Campus	Cape Town, South Africa
05 Aug 2026	06 Aug 2026	On-Campus	Johannesburg, South Africa
11 Aug 2026	12 Aug 2026	On-Campus	Mauritius
11 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE

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 254055) 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