



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

Build Masonry Superstructures Using Solid Units Training

Physical Planning and Construction / Building Construction

Unit Standard 119067 · NQF Level 2 · 12 Credits · 9 Days

COURSE OVERVIEW

This course equips learners with the skills and knowledge required to build masonry superstructures using solid units in a construction environment. It covers the planning, execution, and quality control of masonry work, ensuring compliance with relevant standards and safety regulations.

Category	Physical Planning and Construction
Subfield	Building Construction
Unit Standard	119067
Accreditation	SAQA Accredited · NQF Level 2 · 12 Credits
Duration	9 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 building masonry superstructures.
- Interpret construction drawings and specifications to determine layout and material requirements.
- Select and mix mortar according to specified proportions and consistency.
- Lay solid masonry units to plumb, level, and line, ensuring bond patterns and joint thickness.
- Construct masonry elements such as corners, openings, and intersections accurately.
- Demonstrate quality control by checking alignment, surface finish, and structural integrity.

WHO SHOULD ATTEND

- This course is designed for construction workers, bricklayers, and artisans who are involved in the erection of masonry superstructures and seek to formalize their skills.

COURSE OUTLINE

Day 1: Introduction to Masonry and Safety

- Overview of unit standard 119067 and learning outcomes.
- Occupational Health and Safety Act (OHSA) requirements.
- Personal protective equipment (PPE) for masonry work.
- Types of solid units: clay bricks, concrete blocks, and calcium silicate bricks.
- Properties of solid units: compressive strength, water absorption, durability.
- Site safety: hazards, housekeeping, and emergency procedures.
- Basic setting out: establishing lines and levels.
- Storage and handling of materials on site.

Day 2: Tools, Equipment, and Mortar Mixing

- Hand tools: trowels, levels, jointers, hammers, and bolsters.
- Power tools: mixers, cut-off saws, and grinders.
- Mortar types: cement-lime, cement, and pre-mixed.
- Mix proportions: volumetric and batch mixing.
- Mixing procedure: dry mixing, adding water, and achieving workability.
- Testing mortar: slump test and spread test.
- Mortar retempering and usage within time limits.
- Tool maintenance and cleaning.

Day 3: Laying Techniques for Solid Units

- Setting out the first course: dry bond and positioning.
- Applying mortar: bedding, buttering, and furrowing.
- Laying bricks: tapping, leveling, and plumbing.
- Cutting units: methods for accurate cutting.
- Bond patterns: stretcher bond, English bond, and Flemish bond.
- Maintaining joint thickness: 10mm standard.
- Checking alignment with line and pins.
- Common laying defects and correction.

Day 4: Wall Construction – Solid and Cavity Walls

- Solid wall construction: thickness, bonding, and stability.
- Cavity wall construction: inner and outer leaves.
- Wall ties: types, spacing, and installation.
- Damp-proof courses (DPC): materials and positioning.
- Movement joints: expansion and contraction.
- Load-bearing vs. non-load-bearing walls.
- Openings: lintels and arches.
- Quality checks: straightness, verticality, and joint finish.

Day 5: Columns, Piers, and Quoins

- Types of piers: isolated, attached, and engaged.
- Pier construction: bonding patterns and reinforcement.
- Column construction: square, rectangular, and circular.
- Reinforcement: steel bars and grouting.
- Quoins: purpose and construction techniques.

- Forming corners: racking back and toothing.
- Plumb and alignment for vertical elements.
- Tying piers and columns to walls.

Day 6: Arches, Lintels, and Openings

- Arch types: segmental, semi-circular, and flat.
- Arch construction: centering, voussoirs, and keystone.
- Lintel types: pre-cast concrete, steel, and reinforced masonry.
- Lintel installation: bearing and positioning.
- Window and door openings: reveals and sills.
- Support systems: props and temporary works.
- Arch thrust: understanding and accommodating.
- Finishing arches: joints and pointing.

Day 7: Jointing, Pointing, and Finishing

- Joint profiles: flush, struck, recessed, and weather struck.
- Pointing: raking out, mixing mortar, and filling.
- Tooling joints: using jointers and irons.
- Cleaning brickwork: brushing, washing, and acid cleaning.
- Protecting finished work: covers and curing.
- Weatherproofing: sealants and coatings.
- Colour matching and mortar consistency.
- Defects in joints and rectification.

Day 8: Quality Control and Compliance

- Quality control checklist: dimensions, alignment, and joints.
- Common defects: cracks, efflorescence, and staining.
- Rectification methods for defects.
- Sampling: cube testing for mortar and unit strength.
- SANS 10400: building regulations compliance.
- SANS 1200: standard specifications for masonry.
- Documentation: site reports and non-conformance reports.
- Handover procedures and client expectations.

Day 9: Practical Integration and Assessment

- Practical project: build a wall with openings, pier, and DPC.
- Time management and sequencing of tasks.
- Safety during practical: PPE and site organisation.
- Assessment: observed practical and oral questioning.
- Self-evaluation and peer feedback.
- Review of unit standard outcomes.
- Certification requirements.
- Course closure and resources for further learning.

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 **12 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 33,300.00	R 33,300.00
1	In-House	R 43,300.00	R 43,300.00
1	On-Campus (Pretoria)	R 50,000.00	R 50,000.00

UPCOMING SESSIONS

Start	End	Method	Venue
07 Aug 2026	19 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	20 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	21 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	24 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	24 Aug 2026	On-Campus	Mauritius
13 Aug 2026	25 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	26 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	27 Aug 2026	On-Campus	Abu Dhabi, 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 119067) 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@aatid.co.za · www.aatid.co.za