



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

Build Masonry Superstructures Using Hollow Units Training

Physical Planning and Construction / Building Construction

Unit Standard 119069 · NQF Level 1 · 12 Credits · 9 Days

COURSE OVERVIEW

This course equips learners with the skills and knowledge to construct masonry superstructures using hollow units, in compliance with South African building regulations and safety standards. It covers material selection, mortar mixing, bonding patterns, and quality control to ensure structural integrity.

Category	Physical Planning and Construction
Subfield	Building Construction
Unit Standard	119069
Accreditation	SAQA Accredited · NQF Level 1 · 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 handling hollow units and mortar.
- Interpret construction drawings and specifications to determine the layout and bonding pattern for hollow unit masonry.
- Mix mortar to the required consistency and strength for hollow unit construction.
- Lay hollow units to plumb, level, and line, ensuring proper bonding and reinforcement placement.
- Inspect completed work for defects and apply corrective measures to meet quality standards.
- Demonstrate knowledge of material properties, including the characteristics of hollow units and mortar.

WHO SHOULD ATTEND

- This course is designed for bricklayers, construction supervisors, and artisans who are involved in building masonry superstructures with hollow units and seek to formalize their competencies.

COURSE OUTLINE

Day 1: Introduction to Masonry and Hollow Units

- Overview of masonry industry in South Africa.
- Types of hollow units: concrete blocks, clay bricks, etc.
- Material properties: strength, density, water absorption.
- Relevant SANS and SABS standards.
- Occupational Health and Safety Act requirements.
- PPE selection and use.
- Site safety induction and hazard identification.
- Introduction to tools and equipment.

Day 2: Mortar Mixes and Bonding Patterns

- Mortar constituents: cement, lime, sand, water.
- Mortar types (M, S, N) and their strengths.
- Mixing methods: manual and mechanical.
- Testing mortar: flow, water retention.
- Bonding patterns: stretcher, header, English, Flemish.
- Importance of bond for wall strength.
- Mortar joints: thickness, tooling.
- Practical: mixing and testing mortar.

Day 3: Setting Out and Foundation Preparation

- Reading building plans: dimensions, elevations.
- Setting out: profiles, strings, pegs.
- Checking squareness using 3-4-5 method.
- Foundation types and requirements.
- Levelling and compacting base.
- Installing DPC: materials and positioning.
- Establishing corner leads.
- Practical: setting out a wall line.

Day 4: Laying Hollow Units – Basic Techniques

- Laying techniques: buttering, placing, tapping.
- Maintaining plumb: spirit level use.
- Levelling: straightedge and level.
- Joint thickness control.
- Cutting blocks: using block splitter, saw.
- Safety in cutting: eye protection, dust control.
- Building a straight wall section.
- Practical: laying a course of blocks.

Day 5: Corners, Junctions, and Openings

- Corner construction: lead building.
- T-junctions: toothing and bonding.
- Cavity walls: wall ties, weep holes.
- Openings: reveals, jambs, sills.
- Lintel types: concrete, steel.

- Lintel installation: bearing, level.
- Practical: building a corner and opening.
- Quality checks: squareness, alignment.

Day 6: Reinforcement and Structural Elements

- Reinforcement types: rebar, mesh.
- Horizontal reinforcement: bond beams.
- Vertical reinforcement: cores.
- Grouting: mix, placement, consolidation.
- Columns: formwork, pouring.
- Ties and anchors for stability.
- Practical: installing reinforcement.
- Testing: slump, cube samples.

Day 7: Advanced Wall Construction – Curves and Complex Shapes

- Curved walls: radial layout, cutting.
- Special units: quoins, half blocks.
- Intersecting walls: bonding at angles.
- Movement joints: location, installation.
- Control joints vs expansion joints.
- Sealants and backer rods.
- Practical: building a curved section.
- Problem-solving for complex layouts.

Day 8: Quality Control, Defects, and Remedial Work

- Common defects: cracking, efflorescence, spalling.
- Causes: moisture, movement, materials.
- Quality control: checks during laying.
- Testing: prism testing, bond strength.
- Remedial techniques: repointing, stitching.
- Waterproofing and protection.
- Documentation and reporting.
- Practical: inspecting and repairing a wall.

Day 9: Practical Integration and Final Assessment

- Integrated project: building a wall with openings and reinforcement.
- Time management and team coordination.
- Final inspection: plumb, level, alignment.
- Written test on unit standard outcomes.
- Portfolio of evidence compilation.
- Feedback session and improvement areas.
- Certification process and next steps.
- Course 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 **12 NQF credits** at **NQF Level 1**.

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
04 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
05 Aug 2026	17 Aug 2026	On-Campus	Dubai, UAE
06 Aug 2026	18 Aug 2026	On-Campus	Pretoria, South Africa
06 Aug 2026	18 Aug 2026	On-Campus	Lagos, Nigeria
07 Aug 2026	19 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	20 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	24 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 119069) 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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