



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

Fabricate Erect And Strip Timber Formwork For Straight Walls Columns And Bases Training

Physical Planning and Construction / Building Construction

Unit Standard 119045 · NQF Level 2 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the practical skills and theoretical knowledge to safely fabricate, erect, and strip timber formwork for straight walls, columns, and bases in construction. It covers material selection, layout, assembly, and dismantling procedures, ensuring compliance with industry standards and safety regulations.

Category	Physical Planning and Construction
Subfield	Building Construction
Unit Standard	119045
Accreditation	SAQA Accredited · NQF Level 2 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant safety regulations and personal protective equipment (PPE) requirements when working with timber formwork.
- Interpret construction drawings and specifications to plan the layout of formwork for straight walls, columns, and bases.
- Select appropriate timber materials, tools, and equipment for fabricating formwork components.
- Demonstrate correct procedures for assembling, erecting, and aligning timber formwork to achieve specified dimensions and tolerances.
- Implement stripping and dismantling techniques that preserve formwork integrity and ensure site safety.
- Inspect and maintain formwork components, identifying defects and determining reusability.

WHO SHOULD ATTEND

- This course is designed for construction workers, formwork carpenters, and site supervisors who are involved in concrete construction and require hands-on training in timber formwork for structural elements.

COURSE OUTLINE

Day 1: Introduction to Timber Formwork and Safety

- Overview of formwork in concrete construction
- Types of formwork: traditional and engineered systems
- Occupational Health and Safety Act (OHSA) requirements
- Personal protective equipment (PPE) and site hazards
- Timber species, grades, and common sizes
- Formwork components: panels, walers, soldiers, ties, and props
- Reading formwork layout drawings
- Tool identification: saws, hammers, levels, measuring tapes

Day 2: Planning and Layout for Straight Walls and Columns

- Material take-off and cutting lists
- Setting out reference lines and datum points
- Marking column and wall positions on site
- Panel fabrication: cutting, drilling, and assembling
- Installing walers and soldiers for rigidity
- Plumbing and leveling techniques
- Introduction to formwork design: concrete pressure and loads
- Bracing principles for stability

Day 3: Erecting Formwork for Bases and Columns

- Base formwork: side forms, stakes, and bracing
- Column formwork: clad panels, clamps, and ties
- Installing form ties and spreaders
- Squaring and plumbing columns
- Bracing columns against lateral forces
- Application of form release agents
- Inspection checklist before concreting
- Common erection errors and remedies

Day 4: Erecting Formwork for Straight Walls and Stripping

- Wall formwork erection: panels, ties, and walers
- Alignment systems: adjustable props and turnbuckles
- Pouring windows and access points
- Monitoring formwork during concrete placement
- Stripping times: factors affecting concrete strength
- Sequential stripping: sides first, then soffits
- Cleaning and oiling formwork for reuse
- Defect identification and repair of formwork

Day 5: Quality Control, Troubleshooting, and Practical Integration

- Quality control: tolerances, alignment, and surface finish
- Troubleshooting: bulging, misalignment, and leaks
- Full-scale practical: erect and strip wall and column formwork
- Team roles and communication on site
- Documentation: daily reports, inspection sheets

- Handover to concreting team
- Final assessment and feedback
- Course summary and certification

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 2**.

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 119045) 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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