



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

Erect And Strip Steel Formwork For Straight Walls Columns And Bases Training

Physical Planning and Construction / Building Construction

Unit Standard 119041 · NQF Level 2 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to safely erect and strip steel formwork for straight walls, columns, and bases in construction environments. Participants will master the correct procedures for assembling, aligning, and dismantling formwork systems while adhering to occupational health and safety regulations. The training ensures competency in interpreting technical drawings, selecting appropriate equipment, and applying quality control measures to achieve structural integrity.

Category	Physical Planning and Construction
Subfield	Building Construction
Unit Standard	119041
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

- Interpret engineering drawings and specifications to determine formwork layout for straight walls, columns, and bases.
- Select and inspect steel formwork components and accessories according to project requirements and safety standards.
- Erect steel formwork systems ensuring correct alignment, plumbness, and bracing to withstand concrete pressure.
- Apply safe working practices including hazard identification, fall protection, and use of personal protective equipment (PPE).
- Strip formwork systematically after concrete curing, ensuring no damage to the structure or components.
- Perform post-stripping inspection and maintenance of formwork components for reuse or storage.

WHO SHOULD ATTEND

- This course is designed for construction workers, formwork erectors, site supervisors, and apprentices in the building and civil engineering sectors who are involved in concrete construction activities.
- It is also suitable for individuals seeking formal recognition of their skills in steel formwork operations.

COURSE OUTLINE

Day 1: Introduction to Steel Formwork Systems and Safety

- Overview of steel formwork: applications, advantages, and limitations.
- Safety legislation: OHS Act, construction regulations, and site-specific safety plans.
- PPE requirements: hard hats, safety boots, gloves, and fall protection.
- Formwork components: panels, soldiers, walers, ties, and braces.
- Introduction to formwork drawings: symbols, dimensions, and annotations.
- Safe handling and storage of steel formwork materials.
- Housekeeping and hazard identification on formwork sites.
- Team roles and communication protocols during formwork operations.

Day 2: Erection of Steel Formwork for Straight Walls

- Site preparation: cleaning, leveling, and marking wall lines.
- Setting out: using string lines, levels, and measuring tapes.
- Panel assembly: connecting panels with pins and wedges.
- Installing ties: types, spacing, and tensioning.
- Walers and soldiers: placement and fixing.
- Bracing: diagonal and horizontal braces for stability.
- Checking alignment: plumb bob, spirit level, and laser level.
- Quality control: checking dimensions and tolerances.

Day 3: Erection of Steel Formwork for Columns and Bases

- Column formwork types: column boxes, clamps, and adjustable forms.
- Setting out column positions: center lines and offsets.
- Erecting column forms: assembling panels and securing with clamps.
- Base and kicker formwork: construction and alignment.
- Plumb and alignment checks for columns.
- Bracing columns: independent and integrated bracing.
- Formwork for column capitals and bases: detailing and assembly.
- Safety considerations: preventing formwork collapse and concrete blowouts.

Day 4: Stripping and Dismantling of Formwork

- Stripping times: factors affecting concrete strength and formwork removal.
- Stripping sequence for walls, columns, and bases.
- Removing ties and patch holes: methods and materials.
- Dismantling panels: careful handling to avoid damage.
- Inspection of concrete: honeycombing, surface defects, and repair techniques.
- Cleaning formwork: removing concrete residue and applying release agents.
- Maintenance: checking for damage, straightening, and replacing parts.
- Storage: stacking, labeling, and protecting formwork components.

Day 5: Practical Integration and Assessment

- Practical exercise: erect formwork for a wall with an attached column and base.
- Team coordination: assigning roles and communicating effectively.
- Full process: setting out, assembly, alignment, bracing, and safety checks.
- Pour concrete (simulated) and monitor formwork behavior.
- Strip formwork: correct sequence and inspection.

- Clean and store equipment after use.
- Summative assessment: written test and practical demonstration.
- Feedback session and certification requirements.

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 119041) 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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