



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

Read Interpret And Produce Working Civil Construction Drawings Training

Physical Planning and Construction / Physical Planning, Design and Management

Unit Standard 120213 · NQF Level 4 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills to read, interpret, and produce working civil construction drawings. Participants will gain the ability to understand technical symbols, scales, and layouts commonly used in civil engineering projects, enabling them to contribute effectively to construction planning and execution.

Category	Physical Planning and Construction
Subfield	Physical Planning, Design and Management
Unit Standard	120213
Accreditation	SAQA Accredited · NQF Level 4 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Interpret symbols, abbreviations, and scales used on civil construction drawings.
- Apply knowledge of drawing conventions to extract dimensions, levels, and material specifications.
- Analyze site plans, cross-sections, and longitudinal sections to understand design intent.
- Produce simple working drawings using standard drafting techniques and software.
- Evaluate drawing sets for completeness and consistency with project requirements.
- Demonstrate compliance with relevant SANS and industry standards in drawing production.

WHO SHOULD ATTEND

- This course is designed for civil engineering technicians, site supervisors, construction managers, and drafters who need to work with civil construction drawings in their daily roles.

COURSE OUTLINE

Day 1: Introduction to Civil Construction Drawings

- Overview of civil construction drawings: site plans, floor plans, sections, elevations.
- Drawing components: title block, revision block, notes, legends.
- Scales and dimensions: reading and using scale rules.
- Standard symbols and abbreviations used in civil engineering.
- Line types and their meanings.
- Introduction to South African drawing standards (SANS).

Day 2: Reading and Interpreting Drawings

- Site plans: orientation, boundaries, setbacks, services.
- Contour lines and spot levels: interpreting ground topography.
- Foundation details: strip, raft, and pile foundations.
- Drainage and sewer layouts: pipe gradients and manholes.
- Sections: cutting planes, material hatching, structural elements.
- Elevations: external finishes, openings, heights.

Day 3: Structural and Reinforcing Drawings

- Reinforced concrete drawings: beam, column, slab layouts.
- Reinforcement symbols: bar marks, diameters, spacing.
- Bending schedules: interpretation and extraction of quantities.
- Steelwork drawings: member designations, connections, welding symbols.
- Precast concrete and prestressed elements.
- Structural notes and general arrangement drawings.

Day 4: Services and Detail Drawings

- MEP drawings: symbols for electrical, water supply, and HVAC.
- Coordination drawings: clash detection and integration.
- Detail drawings: window schedules, door types, stair details.
- Finishes schedules: materials and application areas.
- Measurement techniques: quantifying materials from drawings.
- Revisions and as-built drawings: managing changes.

Day 5: Producing and Managing Drawings

- Manual drafting: setting up a drawing sheet, scaling, dimensioning.
- Introduction to CAD: basic commands and layer management.
- Producing a simple plan, section, and detail.
- Drawing management: version control, file naming, and storage.
- Quality assurance: checking for errors and compliance.
- Final project: produce a complete set of drawings from a brief.

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 4**.

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
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 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 120213) 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 F0409, 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