



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

Structural Steel Detailing Regulations Codes And Drawing Office Practices Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 114194 · NQF Level 4 · 7 Credits · 4 Days

COURSE OVERVIEW

This course equips learners with comprehensive knowledge of structural steel detailing regulations, codes, and drawing office practices as per South African standards. It focuses on the application of relevant SANS codes and industry best practices to ensure compliance, accuracy, and efficiency in structural steel detailing. Participants will gain practical skills to produce detailed drawings and documentation that meet regulatory and project requirements.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	114194
Accreditation	SAQA Accredited · NQF Level 4 · 7 Credits
Duration	4 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant SANS codes and regulations to structural steel detailing projects.
- Interpret and implement drawing office practices and standards for steel structures.
- Analyze structural steel connections and components to ensure code compliance.
- Evaluate detailing drawings for accuracy and adherence to project specifications.
- Demonstrate proficiency in producing detailed steel fabrication and erection drawings.
- Implement quality control measures in the detailing process to minimize errors.

WHO SHOULD ATTEND

- This course is designed for drafters, detailers, engineers, and technicians involved in structural steel design and detailing within the construction and engineering sectors.
- It is also suitable for professionals seeking to update their knowledge of current regulations and drawing office practices.

COURSE OUTLINE

Day 1: Introduction to Structural Steel Detailing and Regulatory Framework

- Overview of structural steel detailing: scope and career path
- South African regulatory environment: SANS, SABS, and OHS Act
- Key codes: SANS 10162, SANS 10082, and relevant SABS standards
- Drawing office organisation: document control, revision systems, and filing
- Roles of detailer, checker, and engineer in the drawing office
- Introduction to standard drawing formats, title blocks, and symbols
- Quality assurance and quality control in detailing
- Ethics and professionalism in the detailing industry

Day 2: Steel Detailing Codes and Standards in Depth

- Detailed review of SANS 10162: limit states design, load combinations
- SANS 10082: welding standards and inspection requirements
- Bolt types, grades, and installation standards
- Weld symbols, types, and detailing conventions
- Connection design: simple, moment, and braced frames
- Use of standard connection tables and manufacturer catalogues
- National Building Regulations: Part B (structural safety)
- Case studies of code compliance in real projects

Day 3: Drawing Office Practices and Detailing Procedures

- Drawing production workflow: from design to issue
- Detailing for fabrication: material lists, piece marks, and nesting
- Standard drawing types: general arrangement, shop details, erection plans
- Dimensioning, tolerances, and fit-up considerations
- Checking procedures: self-check, peer check, and formal review
- Revision control: numbering, clouding, and revision blocks
- Document transmittal and RFI (Request for Information) processes
- Interdisciplinary coordination: clash detection and interface management

Day 4: Practical Integration and Project Application

- Simulated project: design brief and scope
- Creating general arrangement and shop detail drawings
- Applying connection details and standard components
- Material take-off and ordering documentation
- Erection sequence and site installation considerations
- Drawing review and correction cycles
- Team presentation and feedback session
- Course wrap-up and assessment

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 **7 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 20,500.00	R 20,500.00
1	In-House	R 26,600.00	R 26,600.00
1	On-Campus (Pretoria)	R 30,800.00	R 30,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
04 Aug 2026	07 Aug 2026	On-Campus	Mauritius
04 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
04 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	13 Aug 2026	On-Campus	Mauritius
10 Aug 2026	13 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 114194) 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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