



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

Plan And Determine Drawing Requirements To Produce A Drawing Training

Manufacturing, Engineering and Technology / Engineering and Related Design

Unit Standard 120227 · NQF Level 3 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the skills to plan and determine drawing requirements for producing technical drawings. It covers the interpretation of specifications, selection of drawing equipment, and adherence to industry standards. Learners will be able to produce accurate drawings that meet project and quality requirements.

Category	Manufacturing, Engineering and Technology
Subfield	Engineering and Related Design
Unit Standard	120227
Accreditation	SAQA Accredited · NQF Level 3 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Interpret drawing requirements from specifications, sketches, and verbal instructions.
- Select appropriate drawing equipment, materials, and software for the task.
- Apply relevant standards and conventions in the production of drawings.
- Plan the sequence of drawing activities to meet project deadlines.
- Produce a drawing that accurately represents the design intent.
- Verify the drawing against requirements and make necessary revisions.

WHO SHOULD ATTEND

- This course is designed for drafters, designers, engineers, and technicians who need to plan and produce technical drawings in various industries such as manufacturing, construction, and engineering.

COURSE OUTLINE

Day 1: Foundational Drawing Principles and Standards

- Introduction to drawing types: orthographic, isometric, sectional views.
- Overview of SANS 0111-1 and ISO 128 standards for technical drawings.
- Components of a drawing: title block, revision table, scale, and notes.
- Line types: visible, hidden, centre, dimension, and leader lines.
- Basic geometric constructions: lines, arcs, circles, and tangents.
- Standard symbols for materials, features, and surface finishes.

Day 2: Drawing Requirements and Interpretation

- Analysing project briefs to identify drawing scope and deliverables.
- Dimensioning rules: linear, angular, ordinate, and chain dimensioning.
- Introduction to geometric dimensioning and tolerancing (GD&T;) per SANS 10111.
- Interpreting assembly drawings, parts lists, and balloon referencing.
- Drawing revision control and document management.
- Cross-referencing drawings with specification sheets and bill of materials.

Day 3: Practical Application and Quality Assurance

- Step-by-step drawing creation: from concept to final layout.
- Hands-on exercise: produce orthographic and isometric views of a component.
- Quality assurance: checking for accuracy, completeness, and standard compliance.
- Implementing revisions and maintaining version control.
- Presenting and defending drawing decisions in a review session.
- Course assessment: practical drawing task and written test.

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 **6 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 17,900.00	R 17,900.00
1	In-House	R 23,300.00	R 23,300.00
1	On-Campus (Pretoria)	R 26,800.00	R 26,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	05 Aug 2026	On-Campus	Cape Town, South Africa
03 Aug 2026	05 Aug 2026	On-Campus	Lagos, Nigeria
04 Aug 2026	06 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	06 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Mauritius
10 Aug 2026	12 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE

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 120227) 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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