



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

Identify Engineering Tools Material And Equipment And Explain The Purpose And Function Of Each Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 120086 · NQF Level 2 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the essential skills to correctly identify a range of engineering tools, materials, and equipment commonly used in mechanical, electrical, and civil engineering contexts. Participants will understand the purpose and function of each item, enabling safe and efficient use in the workplace. The training aligns with SAQA Unit Standard 120086 and promotes adherence to occupational health and safety standards.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	120086
Accreditation	SAQA Accredited · NQF Level 2 · 3 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify a range of engineering tools, materials, and equipment by name and visual recognition.
- Explain the primary purpose and function of each identified tool, material, or equipment item.
- Apply correct terminology when describing tools, materials, and equipment in an engineering context.
- Demonstrate safe handling and storage practices for engineering tools and equipment.
- Classify materials according to their properties and typical engineering applications.
- Evaluate the suitability of specific tools or equipment for given engineering tasks.

WHO SHOULD ATTEND

- This course is designed for engineering technicians, artisans, tradespeople, and entry-level engineers who require foundational knowledge of engineering tools, materials, and equipment.
- It is also suitable for learners in technical vocational education and training (TVET) programmes or workplace-based learning.

COURSE OUTLINE

Day 1: Introduction to Engineering Tools, Materials, and Equipment

- Classification of engineering tools: hand tools, power tools, measuring tools.
- Common engineering materials: metals, plastics, composites, and their properties.
- Equipment types: machine tools, welding equipment, testing instruments.
- Purpose and function of specific tools: hammers, wrenches, screwdrivers, drills.
- Purpose and function of materials: steel, aluminium, PVC, wood.
- Purpose and function of equipment: lathe, milling machine, grinder, multimeter.
- Safety protocols: PPE, tool inspection, material storage.
- Practical exercise: Identifying tools and materials in a workshop setting.

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 **3 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 12,800.00	R 12,800.00
1	In-House	R 16,600.00	R 16,600.00
1	On-Campus (Pretoria)	R 19,200.00	R 19,200.00

UPCOMING SESSIONS

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

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 120086) 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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