



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

Select Use And Care For Engineering Hand Tools Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 119744 · NQF Level 2 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to select, use, and care for engineering hand tools safely and effectively. It covers tool identification, correct handling techniques, maintenance procedures, and adherence to safety regulations. Upon completion, learners will be able to apply these competencies in an engineering workshop environment.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	119744
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

- Select appropriate engineering hand tools for specific tasks based on material, design, and safety requirements.
- Demonstrate correct handling and usage techniques for a range of hand tools to ensure precision and efficiency.
- Apply maintenance and storage procedures to prolong tool life and prevent damage.
- Analyze tool condition and identify defects or wear that may compromise safety or performance.
- Implement safety protocols and personal protective equipment (PPE) requirements when using hand tools.
- Evaluate the suitability of tools for different engineering applications in compliance with industry standards.

WHO SHOULD ATTEND

- This course is designed for engineering technicians, artisans, and maintenance personnel who work with hand tools in industrial or workshop settings.
- It is also suitable for apprentices and newcomers seeking foundational tool handling skills.

COURSE OUTLINE

Day 1: Introduction to Engineering Hand Tools and Safety

- Overview of engineering hand tools: spanners, wrenches, screwdrivers, pliers, hammers, chisels, files, and measuring tools.
- Safety regulations (OHS Act, SANS codes) and personal protective equipment (PPE).
- Tool selection criteria: material, size, type, and task suitability.
- Basic ergonomics and safe handling practices.
- Tool storage: toolboxes, shadow boards, and inventory control.
- Introduction to tool maintenance: cleaning and inspection.

Day 2: Cutting, Striking, and Clamping Tools

- Cutting tools: hacksaws (blade selection, tensioning, cutting techniques), cold chisels, and files.
- Striking tools: ball-peen hammers, club hammers, and mallets; striking technique and safety.
- Clamping tools: vices, C-clamps, and locking pliers; proper setup and usage.
- Tool inspection for wear, damage, and sharpness.
- Practical exercises: cutting steel rod, chiselling, and filing flat surfaces.

Day 3: Measuring, Marking, and Layout Tools

- Measuring tools: steel rules, vernier callipers, micrometres, and tape measures; reading and accuracy.
- Marking tools: scribes, centre punches, dividers, and squares.
- Layout techniques: scribing lines, marking centres, and using surface plates.
- Care and calibration: cleaning, storage, and zero error checks.
- Practical exercises: measuring diameters, depths, and marking out a workpiece.

Day 4: Threading, Fastening, and Assembly Tools

- Threading tools: taps, dies, and tap wrenches; thread cutting techniques.
- Fastening tools: combination spanners, socket sets, torque wrenches, and screwdrivers.
- Fastener types: bolts, nuts, washers, and screws; thread identification.
- Torque settings and tightening sequences.
- Assembly and disassembly procedures for common engineering components.
- Practical exercises: cutting external and internal threads, tightening bolts to torque.

Day 5: Tool Maintenance, Troubleshooting, and Integration

- Maintenance procedures: cleaning, lubricating, sharpening (files, chisels), and rust removal.
- Troubleshooting: worn jaws, damaged handles, loss of accuracy.
- Tool life extension and replacement criteria.
- Documentation: tool registers, inspection checklists, and incident reports.
- Integrated practical assessment: select, use, and care for tools to complete a multi-step engineering task.
- Final review and Q&A;

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 119744) 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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