



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

Machine Shop Operations And Manufacturing Skills Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 115889 · NQF Level 1 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the fundamental skills required to operate machine shop equipment and apply manufacturing processes safely and efficiently. It covers the setup, operation, and maintenance of common machine tools, as well as quality control and workplace safety practices in a manufacturing environment.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	115889
Accreditation	SAQA Accredited · NQF Level 1 · 3 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate safe working practices and identify hazards in a machine shop environment.
- Apply setup and operating procedures for common machine tools such as lathes, milling machines, and drilling machines.
- Interpret engineering drawings and specifications to produce components within tolerances.
- Implement quality control measures including measurement and inspection of machined parts.
- Perform routine maintenance and troubleshooting on machine shop equipment.
- Evaluate manufacturing processes for efficiency and recommend improvements.

WHO SHOULD ATTEND

- This course is ideal for entry-level machine operators, artisans, and technicians seeking to gain or improve practical skills in machine shop operations and manufacturing.
- It also benefits production supervisors and team leaders who need a solid understanding of machining processes.

COURSE OUTLINE

Day 1: Foundational Machine Shop Operations and Manufacturing Skills

- Introduction to machine shop operations and manufacturing processes.
- Health, safety, and environmental regulations in the machine shop.
- Overview of machine tools: lathes, milling machines, drills, grinders.
- Cutting tools, tool holders, and work-holding devices.
- Measurement instruments: callipers, micrometres, gauges.
- Reading and interpreting engineering drawings and symbols.
- Basic machining operations: turning, facing, drilling, and tapping.
- Quality control: tolerances, surface finish, and inspection techniques.

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 1**.

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
11 Aug 2026	11 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, UAE
13 Aug 2026	13 Aug 2026	On-Campus	Durban, South Africa
13 Aug 2026	13 Aug 2026	On-Campus	Mauritius
14 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
17 Aug 2026	17 Aug 2026	On-Campus	Pretoria, South Africa
18 Aug 2026	18 Aug 2026	On-Campus	Abu Dhabi, UAE
19 Aug 2026	19 Aug 2026	On-Campus	Durban, 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 115889) 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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