



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Perform Basic Welding Joining Of Metals Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 119753 · NQF Level 2 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the fundamental skills and knowledge required to safely and effectively perform basic welding and metal joining processes. It covers essential techniques, safety protocols, and quality checks to ensure durable and compliant welds in various industrial and construction settings.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	119753
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

- Apply safe welding practices and use personal protective equipment (PPE) in accordance with occupational health and safety regulations.
- Demonstrate correct setup and operation of welding equipment for oxy-fuel gas welding (OFW) and shielded metal arc welding (SMAW).
- Analyze weld defects and implement corrective actions to achieve sound, code-compliant welds.
- Perform basic welding joints (butt, lap, T-joint) on mild steel plates in flat and horizontal positions.
- Evaluate weld quality through visual inspection and basic non-destructive testing techniques.
- Interpret welding symbols and basic engineering drawings to guide welding procedures.

WHO SHOULD ATTEND

- This training is designed for entry-level welders, artisans, and technicians who need to develop practical welding skills for metal joining in manufacturing, construction, or maintenance environments.

COURSE OUTLINE

Day 1: Introduction to Welding and Safety

- Overview of welding and metal joining methods.
- Welding safety regulations and standards.
- Personal protective equipment (PPE) and its proper use.
- Fire prevention and emergency procedures.
- Workshop layout and safe handling of equipment.
- Introduction to welding symbols and blueprints.

Day 2: Welding Equipment and Setup

- Types of welding machines and power sources.
- Electrode classification and selection.
- Cable connections and polarity settings.
- Adjusting amperage and voltage.
- Setting up the work area and clamping.
- Cleaning and preparing metal surfaces.

Day 3: Basic Welding Techniques and Bead Running

- Arc striking methods (scratch and tap).
- Travel angle and electrode angle.
- Stringer beads and weave patterns.
- Heat input and its effect on weld quality.
- Slag removal and cleaning.
- Visual inspection of weld beads.

Day 4: Welding Joints and Positions

- Joint types: butt, lap, T-joint, corner.
- Edge preparation and fit-up.
- Flat position welding of butt joints.
- Fillet weld techniques.
- Horizontal and vertical welding positions.
- Tack welding and sequence.

Day 5: Assessment and Practical Application

- Practical welding project (e.g., welding a small structure).
- Non-destructive testing methods (visual inspection).
- Weld defect identification and correction.
- Final assessment of welds against standards.
- Review of safety and procedures.
- Course evaluation and certification.

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
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Pretoria, 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 119753) 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.

Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za