



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

Metallising Machine Setup And Production Preparation Training

Agriculture and Nature Conservation / Secondary Agriculture

Unit Standard 114083 · NQF Level 3 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills and knowledge required to set up a metallising machine and prepare for production in a manufacturing environment. It covers machine setup procedures, material preparation, and safety protocols to ensure efficient and safe production runs. Learners will be able to interpret work instructions, perform pre-production checks, and troubleshoot common setup issues.

Category	Agriculture and Nature Conservation
Subfield	Secondary Agriculture
Unit Standard	114083
Accreditation	SAQA Accredited · NQF Level 3 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to interpret work instructions and specifications for metallising machine setup.
- Apply correct procedures for preparing materials and consumables required for metallising production.
- Implement safety protocols and perform pre-production checks on metallising equipment.
- Analyze machine parameters and adjust settings to meet production requirements.
- Evaluate setup outcomes and troubleshoot common issues to ensure readiness for production.
- Document setup activities and communicate readiness to production teams.

WHO SHOULD ATTEND

- This course is designed for production machine operators, setup technicians, and team leaders in the metallising or coating industry who are responsible for machine setup and production preparation.

COURSE OUTLINE

Day 1: Introduction to Metallising and Safety

- Overview of thermal spray processes (flame, arc, plasma).
- Applications of metallising in industry (corrosion protection, repair, wear resistance).
- Health and safety requirements: ventilation, PPE, fire prevention.
- Introduction to metallising equipment and consumables.

Day 2: Metallising Equipment and Setup

- Detailed study of metallising gun types and their components.
- Wire and powder feed systems: operation and adjustment.
- Gas supply systems: regulators, flow meters, and safety.
- Electrical connections and power source settings.
- Pre-start checks: alignment, cleanliness, and connections.

Day 3: Surface Preparation and Parameter Setting

- Surface preparation standards (SA 2.5, SA 3).
- Grit blasting equipment and techniques.
- Parameter selection: spray distance, angle, traverse speed, gas flow.
- Troubleshooting common parameter-related defects.

Day 4: Production Preparation and Quality Assurance

- Job planning: reading specifications, selecting wire/powder.
- Setting up the work area: masking, fixturing, ventilation.
- In-process quality control: visual inspection, thickness gauging.
- Post-spray inspection: adhesion tests (bend, peel).
- Record keeping and traceability.

Day 5: Practical Integration and Assessment

- Full setup from start to finish: safety check, surface prep, parameter adjustment.
- Spray trial on sample components.
- Quality evaluation and troubleshooting.
- Written assessment on theory and procedures.
- Final practical assessment.

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 3**.

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 114083) 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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