



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

Bitumen Spray Equipment Operation And Maintenance Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 116135 · NQF Level 2 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to safely operate and maintain bitumen spray equipment used in road construction and maintenance. It covers pre-operational checks, spraying techniques, routine maintenance, and troubleshooting to ensure efficiency and compliance with health and safety regulations.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	116135
Accreditation	SAQA Accredited · NQF Level 2 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate safe pre-operational checks and start-up procedures for bitumen spray equipment.
- Apply correct spraying techniques to achieve uniform application of bitumen.
- Perform routine maintenance tasks according to manufacturer specifications.
- Identify and troubleshoot common operational faults in bitumen spray equipment.
- Implement health and safety protocols during bitumen spraying operations.
- Evaluate equipment performance and adjust settings for optimal operation.

WHO SHOULD ATTEND

- This course is designed for plant operators, road construction workers, maintenance personnel, and supervisors involved in bitumen spraying operations.
- It is also suitable for individuals seeking to upskill in road construction equipment operation.

COURSE OUTLINE

Day 1: Fundamentals of Bitumen Spray Equipment

- Introduction to bitumen spray equipment: types, components, and uses.
- Safety protocols: personal protective equipment, hazard identification, and emergency procedures.
- Pre-operational checks: inspecting pumps, spray bars, nozzles, and controls.
- Principles of bitumen spraying: temperature, viscosity, and spray pattern.
- Calibration procedures: setting spray rates and ensuring uniform application.
- Basic operation: starting, controlling spray, and shutdown procedures.
- Troubleshooting common operational issues.

Day 2: Advanced Operation and Maintenance Techniques

- Advanced spray techniques: adjusting for temperature, wind, and surface conditions.
- Routine maintenance: lubrication, filter cleaning, nozzle replacement.
- Fault diagnosis: identifying issues with pumps, valves, and spray bar.
- Troubleshooting hydraulic and pneumatic systems.
- Cleaning procedures: flushing systems and preventing blockages.
- Storage and winterization: protecting equipment from corrosion and damage.
- Regulatory compliance: SAQA standards, environmental regulations, and reporting.
- Practical assessment: operating and maintaining equipment under supervision.

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 **5 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 15,400.00	R 15,400.00
1	In-House	R 20,000.00	R 20,000.00
1	On-Campus (Pretoria)	R 23,100.00	R 23,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	11 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	11 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	11 Aug 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	13 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	13 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	13 Aug 2026	On-Campus	Mauritius
18 Aug 2026	19 Aug 2026	On-Campus	Pretoria, South Africa
18 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 116135) 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