



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

Paving Screed Operation And Asphalt Paver Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 116140 · NQF Level 2 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to operate an asphalt paver and its screed safely and efficiently. It covers pre-operation checks, screed setup, paving techniques, and quality control to ensure compliance with industry standards.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	116140
Accreditation	SAQA Accredited · NQF Level 2 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to perform pre-operation checks and start-up procedures on an asphalt paver.
- Apply correct screed setup and adjustment techniques for various paving specifications.
- Analyze paving conditions and adjust paver speed, material flow, and screed settings to achieve uniform mat quality.
- Implement safe operating practices, including hazard identification and emergency shutdown procedures.
- Evaluate mat quality and perform corrective actions to address defects such as ripples, tears, or segregation.
- Perform routine maintenance and troubleshooting on paver components, including the screed and material delivery system.

WHO SHOULD ATTEND

- This course is designed for construction workers, plant operators, and supervisors who are responsible for operating asphalt pavers and screeds on road construction and paving projects.

COURSE OUTLINE

Day 1: Foundational Principles and Machine Familiarisation

- Introduction to SAQA Unit Standard 116140 and course structure.
- Overview of the asphalt paving process and industry context.
- Asphalt paver anatomy: tracks/wheels, hopper, conveyor, augers, screed.
- Basic screed types and functions: fixed-width and extendable.
- Fundamental asphalt mix design: aggregates, binder, temperature control.
- Personal Protective Equipment (PPE) and site safety protocols.
- Pre-operational inspection checklist and daily maintenance basics.
- Basic machine controls and stationary operation principles.

Day 2: Screed Operation Techniques and Mat Quality Control

- Advanced screed controls: slope, crown, vibration, tamping, and heating.
- Principles of screed float and automatic grade/slope control systems.
- Achieving target density: compaction principles behind the paver.
- Monitoring and controlling mat temperature, texture, and smoothness.
- Troubleshooting common issues: segregation, tearing, uneven texture.
- Transverse and longitudinal joint construction techniques.
- Communication protocols with truck drivers and roller operators.
- Introduction to basic paving plans and setting out from stringlines.

Day 3: Advanced Application, Integration, and Assessment

- Complex paving applications: curves, inclines, variable widths, and patches.
- Coordinating the paving train: material supply, paver, and compactors.
- Calculating yield, truck cycle times, and maintaining a constant head of material.
- Final mat inspection: using straightedges, density gauges, and visual checks.
- End-of-day procedures: machine cleaning, shutdown, and securement.
- Problem-solving scenarios and decision-making for on-site challenges.
- Review of Unit Standard 116140 assessment criteria and evidence requirements.
- Course summary, Q&A, and preparation for practical evaluation.

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 **6 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 17,900.00	R 17,900.00
1	In-House	R 23,300.00	R 23,300.00
1	On-Campus (Pretoria)	R 26,800.00	R 26,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	05 Aug 2026	On-Campus	Cape Town, South Africa
03 Aug 2026	05 Aug 2026	On-Campus	Lagos, Nigeria
04 Aug 2026	06 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	06 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Mauritius
10 Aug 2026	12 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE

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 116140) 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