



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

Operate Specialised Vehicles And Or Complex Static Or Moving Machinery And Equipment Training

Physical, Mathematical, Computer and Life Sciences / Environmental Sciences

Unit Standard 119830 · NQF Level 3 · 12 Credits · 9 Days

COURSE OVERVIEW

This course equips learners with the skills and knowledge to safely operate specialised vehicles and complex static or moving machinery and equipment in a workplace environment. It covers pre-operational checks, operational procedures, and adherence to safety regulations to minimise risk and ensure compliance with South African health and safety standards.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Environmental Sciences
Unit Standard	119830
Accreditation	SAQA Accredited · NQF Level 3 · 12 Credits
Duration	9 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to conduct pre-operational inspections and identify potential hazards on specialised vehicles and complex machinery.
- Apply safe operating procedures for starting, manoeuvring, and shutting down static or moving machinery and equipment.
- Analyze operational risks and implement control measures to ensure compliance with relevant health and safety legislation.
- Evaluate the performance of machinery and equipment during operation and adjust techniques to maintain efficiency and safety.
- Implement emergency shutdown procedures and respond appropriately to malfunctions or accidents.
- Demonstrate proper loading, unloading, and securing of loads when operating specialised vehicles or equipment.

WHO SHOULD ATTEND

- This course is intended for operators, supervisors, and technicians who are required to operate specialised vehicles or complex machinery and equipment in industries such as construction, mining, manufacturing, and logistics.

COURSE OUTLINE

Day 1: Introduction to Specialised Vehicles and Machinery Operations

- Overview of the unit standard 119830
- Legal framework: OHS Act, SANS codes, and site-specific requirements
- Basic terminology and classifications
- Principles of stability, centre of gravity, and load limits
- Safety signs and signals
- Personal protective equipment (PPE) requirements

Day 2: Pre-Operational Checks and Maintenance Procedures

- Daily and pre-start inspection procedures
- Fluid levels, tyres, brakes, and controls checks
- Lubrication and greasing points
- Battery and electrical system checks
- Logbook completion and defect reporting
- Housekeeping and storage of equipment

Day 3: Operational Controls and Handling Techniques

- Control layout and ergonomics
- Steering systems: articulated, front-wheel, and rear-wheel
- Braking systems: service, parking, and emergency brakes
- Hydraulic and pneumatic controls
- Throttle and transmission management
- Hand signals and communication with ground personnel

Day 4: Manoeuvring and Navigating Confined Spaces

- Forward and reverse driving techniques
- Turning radius and pivot points
- Use of mirrors and cameras
- Navigating ramps, loading bays, and narrow aisles
- Operating on gradients and cross-slopes
- Site-specific hazard identification

Day 5: Load Handling and Attachment Operations

- Types of attachments: forks, buckets, grabs, and hooks
- Attachment coupling and uncoupling
- Load charts and capacity plates
- Safe lifting angles and load stability
- Tiered stacking and load securing
- Handling oversized or irregular loads

Day 6: Operational Planning and Risk Assessment

- Job safety analysis (JSA) and risk assessment matrix
- Site layout and traffic flow planning
- Pedestrian and vehicle segregation
- Weather and environmental factors
- Emergency response plans

- Communication protocols with site supervisors

Day 7: Advanced Manoeuvres and Complex Operations

- Tandem lifting and coordinated operations
- Working with spotters and signal persons
- Operation near overhead power lines and utilities
- Night operations and low-visibility techniques
- Precision placement and fine control
- Simulated complex scenarios

Day 8: Troubleshooting and Fault Finding

- Common faults: hydraulic leaks, brake fade, electrical issues
- Diagnostic tools and procedures
- Reading fault codes and warning lights
- Temporary repairs vs. permanent fixes
- Manufacturer troubleshooting guides
- Reporting and documenting faults

Day 9: Integrated Practical Assessment and Final Evaluation

- Practical assessment: pre-start check, operation, and shutdown
- Simulated work site with multiple tasks
- Oral questioning on theory and safety
- Feedback and debrief session
- Certification requirements and next steps
- Closing and course 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 **12 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 33,300.00	R 33,300.00
1	In-House	R 43,300.00	R 43,300.00
1	On-Campus (Pretoria)	R 50,000.00	R 50,000.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	13 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	14 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	17 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	18 Aug 2026	On-Campus	Mauritius
07 Aug 2026	19 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	20 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	21 Aug 2026	On-Campus	Abu Dhabi, 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 119830) 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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