



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

Front End Loader Operation And Safety Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 116102 · NQF Level 2 · 16 Credits · 13 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to operate a front end loader safely and efficiently in a workplace environment. It covers pre-operational checks, loading and dumping techniques, and adherence to safety regulations to minimize risks and prevent accidents.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	116102
Accreditation	SAQA Accredited · NQF Level 2 · 16 Credits
Duration	13 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 defects or hazards on a front end loader.
- Apply safe operating procedures for starting, maneuvering, loading, and dumping materials with a front end loader.
- Evaluate load stability and adjust operating techniques to maintain control and prevent tipping or overload.
- Implement workplace safety protocols, including traffic management, signaling, and emergency shutdown procedures.
- Analyze site conditions and plan efficient loading cycles to optimize productivity while ensuring safety.
- Perform routine post-operational checks and basic maintenance tasks to ensure equipment longevity and safety.

WHO SHOULD ATTEND

- This course is designed for operators, supervisors, and safety officers who are responsible for or involved in the operation of front end loaders in construction, mining, agriculture, or industrial settings.

COURSE OUTLINE

Day 1: Introduction to Front End Loader Operations and Safety

- Course overview and unit standard 116102
- Types and applications of front end loaders
- Major components: engine, hydraulics, transmission, attachments
- Operator responsibilities and legal requirements
- Introduction to safety management systems
- Personal protective equipment (PPE)

Day 2: Pre-Operational Checks and Maintenance

- Walk-around inspection checklist
- Fluid levels: engine oil, hydraulic oil, coolant, fuel
- Tyre and wheel condition
- Brakes, steering, lights, and warning devices
- Daily maintenance tasks
- Logbook and defect reporting

Day 3: Controls and Basic Maneuvering

- Control layout and functions
- Engine start-up and warm-up procedures
- Steering and braking techniques
- Driving on level ground
- Machine stability principles
- Shut-down and parking procedures

Day 4: Loading and Dumping Techniques

- Bucket positioning and penetration
- Loading loose materials (e.g., sand, gravel)
- Loading cohesive materials (e.g., clay)
- Dumping into trucks and hoppers
- Load weight estimation and centre of gravity
- Spillage prevention

Day 5: Working on Slopes and Uneven Terrain

- Slope stability and tipping hazards
- Ascending and descending slopes
- Side slope operation
- Operating on soft or muddy ground
- Use of differential lock
- Risk assessment for uneven terrain

Day 6: Material Handling and Stockpiling

- Stockpile formation methods
- Layering and compaction
- Blending materials
- Reclaiming from stockpiles
- Cycle time analysis

- Housekeeping and stockpile safety

Day 7: Loading Trucks and Haulage Units

- Truck positioning and approach angles
- Loading sequence: first pass, final pass
- Overload prevention
- Communication with haulage operators
- Spotting and signaling
- Loading different truck types

Day 8: Attachments and Specialized Operations

- Types of attachments: forks, grapples, bale spears
- Attachment change procedures
- Operating with forks: pallet handling
- Grapple operation for loose material
- Hydraulic quick couplers
- Attachment-specific hazards

Day 9: Safety in the Workplace and Hazard Awareness

- Hazard identification and risk assessment
- Working near overhead services
- Pedestrian and vehicle segregation
- Safe operation in confined spaces
- Fire prevention and extinguisher use
- Emergency shutdown and evacuation

Day 10: Environmental Considerations and Fuel Efficiency

- Environmental regulations and site rules
- Spill containment and clean-up
- Fuel-efficient driving techniques
- Engine idling reduction
- Noise and dust control
- Waste management

Day 11: Advanced Operating Techniques

- Fine grading and leveling techniques
- Trenching and backfilling
- Operation in confined areas
- Bucket feathering and tilt control
- Working with laser or grade systems
- Advanced load placement

Day 12: Practical Assessment Preparation and Review

- Summary of safety regulations
- Review of pre-operational checks
- Practical drills: loading, dumping, maneuvering
- Mock assessments
- Feedback and coaching
- Written knowledge assessment

Day 13: Final Practical Assessment and Certification

- Pre-assessment briefing
- Practical test: pre-start inspection
- Practical test: basic maneuvers
- Practical test: loading and dumping
- Practical test: advanced operations
- Post-assessment debrief
- Certification and logbook sign-off

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 **16 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 43,500.00	R 43,500.00
1	In-House	R 56,600.00	R 56,600.00
1	On-Campus (Pretoria)	R 65,200.00	R 65,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	19 Aug 2026	On-Campus	Johannesburg, South Africa
04 Aug 2026	20 Aug 2026	On-Campus	Mauritius
05 Aug 2026	21 Aug 2026	On-Campus	Cape Town, South Africa
06 Aug 2026	24 Aug 2026	On-Campus	Dubai, UAE
07 Aug 2026	25 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	25 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	26 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	26 Aug 2026	On-Campus	Mauritius

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 116102) 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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