



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

Work Live On All Transmission Lines And Associated Equipment From A Mechanised Maintenance Vehicle Training

Physical Planning and Construction / Electrical Infrastructure Construction

Unit Standard 119884 · NQF Level 4 · 9 Credits · 6 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to safely perform live work on all transmission lines and associated equipment from a mechanised maintenance vehicle. It covers legal requirements, risk assessment, and safe work procedures to ensure compliance with South African health and safety regulations.

Category	Physical Planning and Construction
Subfield	Electrical Infrastructure Construction
Unit Standard	119884
Accreditation	SAQA Accredited · NQF Level 4 · 9 Credits
Duration	6 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant legislation, standards, and safety procedures for live work on transmission lines.
- Demonstrate the correct use of personal protective equipment (PPE) and specialised tools for live-line maintenance.
- Conduct a risk assessment and implement control measures before commencing live work from a mechanised maintenance vehicle.
- Perform live-line maintenance tasks on transmission lines and associated equipment using approved techniques.
- Evaluate the condition of transmission lines and equipment to determine the appropriate maintenance actions.
- Respond to emergencies or abnormal conditions during live work in accordance with established protocols.

WHO SHOULD ATTEND

- This course is designed for qualified electrical technicians, linesmen, and maintenance personnel who are required to perform live-line maintenance on transmission lines using mechanised vehicles.

COURSE OUTLINE

Day 1: Introduction to Live-Line Maintenance and Safety Fundamentals

- Overview of transmission systems and live-line maintenance.
- Occupational Health and Safety Act (OHSA) and relevant regulations.
- Hazard identification: electrical, fall, and mechanical risks.
- Personal protective equipment (PPE) and safety gear.
- Emergency response procedures and rescue planning.
- Introduction to mechanised maintenance vehicles (MMVs).

Day 2: Mechanised Maintenance Vehicle Systems and Pre-Operational Checks

- Types of MMVs: aerial buckets, insulated platforms, and cranes.
- Vehicle systems: hydraulics, controls, and insulation.
- Pre-start checks: fluid levels, tyres, brakes, and emergency systems.
- Load charts and stability calculations.
- Outrigger setup on uneven terrain.
- Site-specific access and egress planning.

Day 3: Working at Height and Fall Protection

- Fall protection hierarchy: elimination, passive, and active systems.
- Harness, lanyards, and shock absorbers inspection.
- Anchor point selection and load ratings.
- Safe work positioning within the bucket/platform.
- Rescue plans and self-rescue techniques.
- Practical drills: harness fitting and fall arrest testing.

Day 4: Live-Line Work Procedures and Tooling

- Live-line tooling: hot sticks, shotgun sticks, and insulating gloves.
- Minimum approach distances based on voltage levels.
- Conductor cleaning, clamp replacement, and insulator washing.
- Rubber-glove work methods and inspection.
- Bonding and grounding procedures.
- Practical session: tool handling and simulated tasks.

Day 5: Advanced Live-Line Operations and Fault Response

- Replacing damaged insulators and hardware.
- Splicing and repairing conductors under live conditions.
- Emergency response to broken conductors or flashovers.
- Communication protocols with system operators.
- Simulated fault scenarios and team coordination.
- Risk assessment for non-routine operations.

Day 6: Practical Assessment and Integration

- Integrated practical exercise: live-line insulator replacement.
- Pre-job briefing and risk assessment.
- MMV setup, work execution, and tool management.
- Post-job inspection and documentation.
- Written assessment covering all unit standard outcomes.

- Feedback session and certification criteria.

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 **9 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 25,600.00	R 25,600.00
1	In-House	R 33,300.00	R 33,300.00
1	On-Campus (Pretoria)	R 38,400.00	R 38,400.00

UPCOMING SESSIONS

Start	End	Method	Venue
07 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	17 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	18 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	19 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	19 Aug 2026	On-Campus	Mauritius
13 Aug 2026	20 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	24 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 119884) 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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