



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 To Clearance From Live High Voltage Overhead Track Equipment To Perform Maintenance Work Training

Physical Planning and Construction / Electrical Infrastructure Construction

Unit Standard 119889 · NQF Level 2 · 9 Credits · 6 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to safely work to clearance from live high voltage overhead track equipment while performing maintenance work. It focuses on understanding the hazards, isolation procedures, and clearance protocols to ensure compliance with South African health and safety regulations.

Category	Physical Planning and Construction
Subfield	Electrical Infrastructure Construction
Unit Standard	119889
Accreditation	SAQA Accredited · NQF Level 2 · 9 Credits
Duration	6 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safe working procedures to obtain and maintain clearance from live high voltage overhead track equipment.
- Demonstrate understanding of the hazards associated with high voltage overhead track equipment and the principles of isolation.
- Implement clearance procedures in accordance with relevant legislation, standards, and company policies.
- Analyze the requirements for work to clearance and identify potential risks in the work environment.
- Evaluate the effectiveness of clearance and earthing arrangements before commencing maintenance work.
- Communicate and coordinate with relevant stakeholders to ensure safe work execution.

WHO SHOULD ATTEND

- This course is designed for electrical and maintenance personnel working on or near high voltage overhead track equipment, including overhead line workers, technicians, and supervisors in the rail and power utility sectors.

COURSE OUTLINE

Day 1: Introduction to High Voltage Overhead Track Equipment and Safety Fundamentals

- Overview of high voltage overhead track equipment.
- Key components: conductors, insulators, towers, and switchgear.
- Electrical principles: voltage, current, resistance, and safety distances.
- Hazard identification: arc flash, electric shock, and falls.
- Safety regulations: OHS Act, SANS 10219, and relevant standards.
- Introduction to PPE: insulated gloves, helmets, and voltage detectors.

Day 2: Clearance Procedures and Permit-to-Work Systems

- Definition and purpose of work to clearance.
- Permit-to-work system: types of permits, validity, and cancellation.
- Steps to obtain clearance: application, approval, and handover.
- Roles: authorized person, responsible person, and worker.
- Lockout/tagout procedures for overhead track equipment.
- Communication protocols and documentation requirements.

Day 3: Hazard Identification, Risk Assessment, and Control Measures

- HIRA process: identifying hazards, assessing risks, and determining controls.
- Hierarchy of controls: elimination, substitution, engineering controls, administrative controls, PPE.
- Specific hazards: falling objects, weather conditions, and nearby live parts.
- Safe work procedures: isolation, earthing, and testing for dead.
- Emergency procedures: rescue from height, first aid for electric shock, and fire response.
- Case studies of incidents and lessons learned.

Day 4: Practical Application of Clearance and Isolation Procedures

- Hands-on practice with voltage detectors (contact and non-contact).
- Earthing and short-circuiting equipment: types and correct application.
- Step-by-step isolation procedure: switching, locking, tagging, and testing.
- Verification of dead conditions: visual inspection and testing.
- Safe access: ladders, platforms, and fall protection.
- Permit documentation: completing and signing permits, logs, and records.

Day 5: Maintenance Work Techniques and Safe Work Practices

- Common maintenance tasks: insulator cleaning, hardware replacement, and vegetation control.
- Working at height: ladders, elevated platforms, and fall arrest systems.
- Tool safety: insulated tools, tool lanyards, and tool inventory.
- Housekeeping: debris removal, spill containment, and waste disposal.
- Returning to service: withdrawal of clearance, removal of earths, and testing.
- Communication with control room and team coordination.

Day 6: Assessment, Integration, and Course Review

- Simulated exercise: full work to clearance process from start to finish.
- Practical assessment: isolation, earthing, testing, maintenance, and de-isolation.
- Written assessment: multiple-choice and short-answer questions.
- Review of critical safety points and common errors.
- Feedback session and individual coaching.

- Course evaluation and certification information.

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 2**.

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
06 Aug 2026	13 Aug 2026	On-Campus	Dubai, UAE
07 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	14 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	17 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	17 Aug 2026	On-Campus	Mauritius
11 Aug 2026	18 Aug 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	19 Aug 2026	On-Campus	Dubai, UAE
13 Aug 2026	20 Aug 2026	On-Campus	Pretoria, 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 119889) 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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