



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

Construct And Wire Basic Electrical Circuits Training

Physical Planning and Construction / Electrical Infrastructure Construction

Unit Standard 119832 · NQF Level 1 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the practical skills and theoretical knowledge required to construct and wire basic electrical circuits safely and effectively. It covers fundamental electrical principles, component identification, circuit assembly, and adherence to South African electrical regulations. The purpose is to enable learners to perform basic electrical tasks in a domestic or light industrial context while prioritizing safety.

Category	Physical Planning and Construction
Subfield	Electrical Infrastructure Construction
Unit Standard	119832
Accreditation	SAQA Accredited · NQF Level 1 · 4 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant safety procedures and regulations when working with electrical circuits.
- Identify and select appropriate tools, components, and materials for constructing basic circuits.
- Construct and wire series, parallel, and series-parallel circuits according to given specifications.
- Test and verify circuit functionality using multimeters and other basic testing equipment.
- Demonstrate proper termination and connection techniques for cables, switches, and outlets.
- Analyze circuit diagrams and translate them into physical wiring layouts.

WHO SHOULD ATTEND

- This course is designed for electricians, maintenance technicians, and individuals seeking foundational electrical skills for entry-level roles in construction, facilities management, or related fields.

COURSE OUTLINE

Day 1: Introduction to Electrical Circuits and Basic Construction

- Overview of electrical safety: lockout/tagout, PPE, and safe working practices.
- Basic electrical theory: Ohm's Law, Kirchhoff's Laws, and power calculations.
- Introduction to circuit components: resistors, lamps, switches, batteries, and connecting wires.
- Tools and equipment: wire strippers, pliers, screwdrivers, multimeters, and breadboards.
- Reading and interpreting circuit diagrams (schematic symbols).
- Step-by-step construction of a series circuit: connecting components and verifying continuity.
- Step-by-step construction of a parallel circuit: wiring multiple branches and measuring total resistance.
- Troubleshooting common faults: open circuits, short circuits, and incorrect connections.

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 **4 NQF credits** at **NQF Level 1**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 12,800.00	R 12,800.00
1	In-House	R 16,600.00	R 16,600.00
1	On-Campus (Pretoria)	R 19,200.00	R 19,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
06 Aug 2026	06 Aug 2026	On-Campus	Johannesburg, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Mauritius
10 Aug 2026	10 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	11 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, UAE
13 Aug 2026	13 Aug 2026	On-Campus	Durban, South Africa
13 Aug 2026	13 Aug 2026	On-Campus	Mauritius
14 Aug 2026	14 Aug 2026	On-Campus	Cape Town, 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 119832) 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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