



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

Industrial Plug Connection Above 16 Ampere Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110433 · NQF Level 2 · 2 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to safely connect, inspect, and maintain industrial plugs and sockets rated above 16 amperes. It covers the relevant electrical regulations, wiring configurations, and safety protocols to ensure compliance with South African standards and reduce the risk of electrical hazards.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110433
Accreditation	SAQA Accredited · NQF Level 2 · 2 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the correct procedure for connecting industrial plugs and sockets above 16 A in accordance with SANS 10142-1.
- Apply safety precautions and identify potential electrical hazards when working with high-current plug connections.
- Inspect and test plug connections for continuity, polarity, and insulation resistance using appropriate test equipment.
- Analyze wiring diagrams and determine the correct phase, neutral, and earth connections for three-phase plugs.
- Implement maintenance schedules and troubleshoot common faults in industrial plug connections.
- Evaluate the compliance of existing installations with relevant South African electrical regulations.

WHO SHOULD ATTEND

- This training is intended for electricians, maintenance technicians, and electrical engineers who are required to install, test, or repair industrial plug connections in commercial or industrial environments.

COURSE OUTLINE

Day 1: Industrial Plug Connections Above 16 Ampere

- Introduction to SANS 164, IEC 60309, and relevant regulations
- Types of industrial plugs: 32A, 63A, 125A, and pin-and-sleeve configurations
- Cable selection, sizing, and preparation for high-current applications
- Step-by-step wiring: stripping, crimping, and torque settings
- Mechanical assembly: strain relief, glanding, and sealing
- Testing: continuity, insulation resistance, polarity, and earth bond
- Inspection criteria: visual checks, IP ratings, and environmental considerations
- Safety procedures: lockout/tagout, risk assessment, and PPE

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

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
31 Jul 2026	31 Jul 2026	On-Campus	Cape Town, South Africa
31 Jul 2026	31 Jul 2026	On-Campus	Accra, Ghana
03 Aug 2026	03 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	03 Aug 2026	On-Campus	Lagos, Nigeria
04 Aug 2026	04 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	05 Aug 2026	On-Campus	Mauritius
06 Aug 2026	06 Aug 2026	On-Campus	Cape Town, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Dubai, 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 110433) 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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