



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

Electrical Safety

Custom Courses / Health, Safety and Environment (HSE)

Unit Standard AATICD-0235 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to identify electrical hazards, apply safe work practices, and respond to electrical emergencies. It covers the principles of electrical safety, relevant legislation, and risk mitigation strategies to prevent injury and property damage.

Category	Custom Courses
Subfield	Health, Safety and Environment (HSE)
Unit Standard	AATICD-0235
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify common electrical hazards and assess associated risks.
- Apply safe work practices in accordance with the Occupational Health and Safety Act and relevant regulations.
- Demonstrate proper use of personal protective equipment and safety devices.
- Implement emergency procedures for electrical incidents, including shock and fire.
- Analyze electrical safety scenarios to determine appropriate control measures.

WHO SHOULD ATTEND

- This course is designed for employees, supervisors, and safety officers who work with or around electrical equipment in industrial, commercial, or domestic environments.

COURSE OUTLINE

Day 1: Fundamentals of Electrical Safety

- Basic electrical theory: voltage, current, resistance, power
- Effects of electric current on the human body
- Overview of the Occupational Health and Safety Act (OHSA) and relevant regulations
- SANS 10142-1 (Wiring of Premises) introduction
- Common electrical hazards: shock, arc flash, fire, explosion
- Unsafe acts and unsafe conditions
- Introduction to risk assessment and hierarchy of controls
- Roles and responsibilities of employers and employees

Day 2: Hazard Identification and Risk Assessment

- Steps of a risk assessment: hazard identification, risk analysis, risk evaluation
- Hazard identification: damaged insulation, overloaded circuits, wet conditions, exposed conductors
- Risk rating matrices and prioritisation
- Hierarchy of controls: elimination, substitution, engineering controls, administrative controls, PPE
- Lockout/tagout (LOTO) principles and procedures
- Safe isolation of electrical equipment
- Permit-to-work systems for electrical tasks
- Case studies of electrical incidents

Day 3: Personal Protective Equipment (PPE) and Safe Work Practices

- Types of electrical PPE: voltage-rated gloves, arc flash suits, face shields, safety glasses, insulated footwear
- Standards for PPE: SANS, IEC, ASTM
- Inspection, storage, and maintenance of PPE
- Safe approach distances and boundary requirements
- Use of insulated hand tools and voltage detectors
- Working at heights and in confined spaces (electrical considerations)
- Safe use of extension cords and portable equipment
- Emergency response: electric shock, burns, and fires

Day 4: Installation, Maintenance, and Inspection

- Wiring regulations: earthing, bonding, overcurrent protection
- Inspection of switchboards, distribution boards, and wiring
- Testing: insulation resistance, earth continuity, polarity, RCD testing
- Safe maintenance practices: de-energising, proving dead, re-energising
- Portable appliance testing (PAT)
- Working on live equipment: when permitted and precautions
- Documentation: test reports, certificates of compliance
- Common defects: incorrect cable sizing, loose connections, inadequate earthing

Day 5: Advanced Topics, Incident Response, and Practical Integration

- Arc flash: causes, energy, protection boundaries
- Arc flash risk assessment and labelling
- Electrical fire safety and use of extinguishers
- First aid for electric shock and burns
- Incident reporting and investigation

- Review of key legislation and standards
- Case studies: analysis of electrical accidents
- Final assessment and course wrap-up

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 **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
17 Aug 2026	21 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	21 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
31 Aug 2026	04 Sep 2026	On-Campus	Lusaka, Zambia
31 Aug 2026	04 Sep 2026	On-Campus	London, UK
07 Sep 2026	11 Sep 2026	On-Campus	Mauritius
07 Sep 2026	11 Sep 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 AATICD-0235) 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.

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 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za