



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

Stand Alone Battery Charging Wind Turbine Maintenance Inspection Training

Physical Planning and Construction / Electrical Infrastructure Construction

Unit Standard 113885 · NQF Level 4 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the skills to perform maintenance and inspection on stand-alone battery charging wind turbines. Participants will gain the competence to ensure safe, efficient, and reliable operation of these systems, adhering to industry standards and safety regulations.

Category	Physical Planning and Construction
Subfield	Electrical Infrastructure Construction
Unit Standard	113885
Accreditation	SAQA Accredited · NQF Level 4 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safety procedures and risk assessments specific to wind turbine maintenance.
- Inspect turbine components including blades, tower, and battery charging system.
- Diagnose and troubleshoot common faults in stand-alone wind turbine systems.
- Perform preventive maintenance tasks to ensure optimal performance.
- Document maintenance activities and report findings according to standards.
- Demonstrate proper use of tools and equipment for turbine servicing.

WHO SHOULD ATTEND

- This course is designed for technicians, maintenance personnel, and engineers responsible for the upkeep of stand-alone wind turbine systems in remote or off-grid locations.

COURSE OUTLINE

Day 1: Fundamentals of Stand-Alone Battery Charging Wind Turbines

- Overview of stand-alone wind turbine systems and battery charging.
- Components: turbine, tower, controller, batteries, inverter.
- Safety procedures: lockout/tagout, PPE, working at height.
- Inspection of blades, tower structure, and guy wires.
- Electrical system checks: cables, connectors, fuses.
- Battery bank inspection: terminals, electrolyte levels, venting.
- Data logging and performance monitoring basics.
- Documentation and reporting standards.

Day 2: Maintenance, Troubleshooting, and Practical Application

- Scheduled maintenance: lubrication, torque checks, cleaning.
- Troubleshooting: no charging, low output, battery issues.
- Controller settings and adjustment for optimal charging.
- Battery maintenance: equalization charging, specific gravity tests.
- Replacement of brushes, bearings, and seals.
- Tower climbing safety and fall arrest systems.
- Performance testing and verification after maintenance.
- Final assessment 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 **5 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 15,400.00	R 15,400.00
1	In-House	R 20,000.00	R 20,000.00
1	On-Campus (Pretoria)	R 23,100.00	R 23,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
11 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	12 Aug 2026	On-Campus	Mauritius
13 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
13 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
13 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
17 Aug 2026	18 Aug 2026	On-Campus	Pretoria, South Africa
17 Aug 2026	18 Aug 2026	On-Campus	Durban, 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 113885) 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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