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

Wind Farm Operations and Maintenance

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0483 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips wind farm technicians and supervisors with the comprehensive skills required for the safe and efficient operation and maintenance of wind turbine systems. It covers mechanical, electrical, and hydraulic components, as well as safety protocols and performance monitoring, ensuring compliance with industry standards and regulatory requirements.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0483
Accreditation	SAQA Accredited · NQF Level 5 · 4 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, including working at heights and in confined spaces.
- Analyze turbine performance data to identify operational inefficiencies and implement corrective actions.
- Evaluate the condition of mechanical, electrical, and hydraulic components to determine maintenance needs.
- Design preventive maintenance schedules that optimize turbine availability and extend equipment lifespan.
- Implement troubleshooting strategies for common turbine faults, ensuring minimal downtime.
- Demonstrate effective communication and documentation practices for maintenance logbooks and incident reports.

WHO SHOULD ATTEND

- This course is designed for wind farm technicians, maintenance supervisors, and engineers seeking to enhance their technical expertise and operational safety in wind energy facilities.

COURSE OUTLINE

Day 1: **Wind Farm Fundamentals and Safety**

- Overview of wind energy and wind farm layout.
- Wind turbine components: rotor, nacelle, tower, foundation, and control systems.
- Principles of aerodynamics and power generation.
- Introduction to SCADA and condition monitoring systems.
- Routine maintenance tasks: lubrication, inspections, and torque checks.
- Safety standards (OHS Act, SANS codes) and PPE requirements.
- Emergency response and rescue procedures.
- Environmental and community considerations in wind farm operations.

Day 2: **Advanced Operations, Troubleshooting, and Maintenance Planning**

- Failure modes and effects analysis (FMEA) for wind turbines.
- Electrical systems: generators, converters, transformers, and protection.
- Mechanical systems: gearboxes, brakes, yaw and pitch systems.
- Hydraulic and cooling systems maintenance.
- Condition monitoring techniques: vibration analysis, oil analysis, thermography.
- Data interpretation and performance optimization.
- Maintenance planning: scheduling, spare parts management, and work orders.
- Documentation, reporting, and regulatory compliance.

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 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 11,900.00	**R 11,900.00**
1	In-House	R 16,100.00	**R 16,100.00**
1	On-Campus (Pretoria)	R 17,800.00	**R 17,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
01 Dec 2026	02 Dec 2026	On-Campus	Durban, South Africa
02 Dec 2026	03 Dec 2026	On-Campus	Dubai, UAE
03 Dec 2026	04 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
03 Dec 2026	04 Dec 2026	On-Campus	Cape Town, South Africa
10 Dec 2026	11 Dec 2026	On-Campus	Maseru, Lesotho
10 Dec 2026	11 Dec 2026	On-Campus	Kigali, Rwanda
10 Dec 2026	11 Dec 2026	On-Campus	Accra, Ghana
10 Dec 2026	11 Dec 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 QUOTATION OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard AATICD-0483) and click **Get A Quotation**. 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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