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

Renewable Energy Technologies

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0476 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course provides a comprehensive overview of renewable energy technologies, focusing on solar, wind, and hybrid systems. Participants will gain the knowledge and skills to assess, implement, and manage renewable energy solutions in a South African context. The course emphasizes practical application and alignment with national energy goals.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0476
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 principles of renewable energy technologies to real-world scenarios.
- Analyze the feasibility of renewable energy projects based on technical and economic factors.
- Evaluate different renewable energy systems and their components for specific applications.
- Design basic renewable energy system configurations for residential or commercial use.
- Implement safety and regulatory compliance measures in renewable energy installations.
- Demonstrate the ability to integrate renewable energy technologies with existing infrastructure.

WHO SHOULD ATTEND

- This course is designed for engineers, project managers, energy consultants, and technicians involved in energy projects.
- It is also suitable for professionals seeking to transition into the renewable energy sector.

COURSE OUTLINE

Day 1: **Foundations of Renewable Energy Technologies**

- Introduction to renewable energy: definitions, types, and importance
- Global and South African energy landscape, including the Just Energy Transition
- Solar energy: photovoltaic (PV) and solar thermal principles
- Wind energy: turbine components and basic aerodynamics
- Other renewables: hydro, biomass, and geothermal overview
- Environmental and socio-economic impacts of renewable energy
- South African policy: IRP, REIPPPP, and NERSA regulations
- Overview of system components: panels, inverters, batteries, and mounting structures

Day 2: **System Design, Implementation, and Integration**

- Site assessment and resource evaluation (solar irradiance, wind speed
- Load calculation and system sizing for solar PV and wind
- Battery storage and hybrid system configurations
- Grid-tied vs. off-grid systems: inverters, controllers, and net metering
- Safety standards: SANS 10142-1, electrical safety, and working at heights
- Maintenance and troubleshooting of renewable systems
- Financial analysis: capital costs, operational costs, and return on investment
- Project planning: permits, procurement, and commissioning

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
02 Dec 2026	03 Dec 2026	On-Campus	Durban, South Africa
03 Dec 2026	04 Dec 2026	On-Campus	Dubai, UAE
07 Dec 2026	08 Dec 2026	On-Campus	Maseru, Lesotho
07 Dec 2026	08 Dec 2026	On-Campus	Kigali, Rwanda
07 Dec 2026	08 Dec 2026	On-Campus	Accra, Ghana
07 Dec 2026	08 Dec 2026	On-Campus	Cape Town, South Africa
07 Dec 2026	08 Dec 2026	On-Campus	Abu Dhabi, UAE
07 Dec 2026	08 Dec 2026	On-Campus	Victoria Falls, Zimbabwe

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-0476) 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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