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
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COURSE BROCHURE

Renewable Energy Fundamentals

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0475 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course provides a comprehensive introduction to renewable energy technologies, including solar, wind, hydro, and biomass. Participants will gain an understanding of the principles, applications, and benefits of renewable energy systems, as well as the ability to evaluate their feasibility and impact.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0475
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 the fundamental principles of renewable energy sources and their conversion technologies.
- Analyze the technical, economic, and environmental factors influencing the selection of renewable energy systems.
- Evaluate the performance and sustainability of renewable energy projects.
- Design a basic renewable energy system for a specific application.
- Implement best practices for the safe and efficient operation of renewable energy installations.
- Demonstrate an understanding of South African energy policies and regulations related to renewable energy.

WHO SHOULD ATTEND

- This course is designed for professionals, technicians, and managers who are new to renewable energy or seeking to broaden their knowledge.
- It is also suitable for individuals interested in sustainable energy solutions and their implementation.

COURSE OUTLINE

Day 1: **Foundations of Renewable Energy**

- Overview of energy sources and the need for transition
- Solar energy: PV and thermal fundamentals
- Wind energy: principles and components
- Hydropower, biomass, and geothermal basics
- Environmental and socio-economic impacts
- South African energy policy, REIPPPP, and regulatory bodies

Day 2: **Technology Integration and Project Implementation**

- Site assessment: solar and wind resource evaluation
- System sizing: load analysis and component selection
- Energy storage and hybrid renewable systems
- Grid connection and net metering
- Project development: feasibility, financing, and permitting
- Operation, maintenance, and safety protocols

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-0475) 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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