



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

Biomass Energy

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0488 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course provides a comprehensive introduction to biomass energy, covering its role in renewable energy systems, the technologies used for conversion, and the environmental and economic impacts. Participants will gain the knowledge and skills to assess biomass energy projects, implement best practices, and contribute to sustainable energy solutions in South Africa.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0488
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 principles of biomass energy to identify and assess potential biomass resources.
- Analyze different biomass conversion technologies (e.g., combustion, gasification, anaerobic digestion) and their suitability for various applications.
- Evaluate the environmental, economic, and social impacts of biomass energy projects, including sustainability and lifecycle considerations.
- Design a basic biomass energy system or project plan, integrating technical, regulatory, and operational elements.
- Implement biomass energy best practices in real-world scenarios, ensuring safety, efficiency, and compliance with South African regulations.
- Demonstrate the ability to communicate biomass energy concepts and project proposals effectively to stakeholders.

WHO SHOULD ATTEND

- This course is designed for energy professionals, environmentalists, project managers, and individuals interested in renewable energy, as well as those seeking to understand biomass energy for professional development or career advancement.

COURSE OUTLINE

Day 1: Fundamentals of Biomass Energy

- Introduction to biomass: types, sources, and characteristics
- Biomass conversion pathways: combustion, gasification, pyrolysis, anaerobic digestion
- End-use applications: heat, electricity, and biofuels
- Environmental impacts: carbon neutrality, emissions, and land use
- Economic viability and job creation in the biomass sector
- South African biomass resources and case studies
- Regulatory framework and sustainability criteria
- Safety, handling, and storage of biomass materials

Day 2: Advanced Applications and Practical Integration

- Biomass project development: feasibility, sizing, and site selection
- Equipment and systems: boilers, gasifiers, digesters, and CHP units
- Operation, maintenance, and troubleshooting of biomass systems
- Biomass supply chain management: harvesting, transportation, and storage
- Hybrid systems: biomass with solar or wind
- Economic and financial aspects: incentives, tariffs, and payback
- Environmental monitoring and emissions control
- Case studies of successful biomass installations in South Africa

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 15,400.00	R 15,400.00
1	On-Campus (Pretoria)	R 17,800.00	R 17,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
30 Sep 2026	01 Oct 2026	On-Campus	Blantyre, Malawi
01 Oct 2026	02 Oct 2026	On-Campus	Mombasa, Kenya
01 Oct 2026	02 Oct 2026	On-Campus	London, UK
05 Oct 2026	06 Oct 2026	On-Campus	Kigali, Rwanda
05 Oct 2026	06 Oct 2026	Online	—
06 Oct 2026	07 Oct 2026	On-Campus	Mbabane, Eswatini
06 Oct 2026	07 Oct 2026	On-Campus	Lusaka, Zambia
07 Oct 2026	08 Oct 2026	On-Campus	Bangkok, Thailand

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-0488) 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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