



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

Climate Change and Energy

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0527 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with a comprehensive understanding of climate change science, its impacts on energy systems, and the strategies for mitigation and adaptation. It focuses on the transition to sustainable energy sources and the role of energy efficiency in reducing greenhouse gas emissions, enabling participants to contribute to organisational and national climate goals.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0527
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 climate science to analyse the causes and effects of climate change on energy systems.
- Analyse the environmental, economic, and social impacts of energy production and consumption.
- Evaluate current energy policies and regulations in South Africa and globally in the context of climate change.
- Design practical energy efficiency and renewable energy strategies to reduce carbon footprints.
- Implement monitoring and reporting mechanisms for greenhouse gas emissions in an organisational setting.
- Demonstrate the ability to communicate climate change and energy issues effectively to diverse stakeholders.

WHO SHOULD ATTEND

- This course is designed for professionals in energy management, environmental compliance, sustainability, and operations, as well as anyone seeking to understand and address climate change challenges within their organisation or community.

COURSE OUTLINE

Day 1: Understanding Climate Change and Its Drivers

- Introduction to climate change: definitions and concepts
- The greenhouse effect and greenhouse gases (CO₂, CH₄, N₂O, etc.
- Sources of emissions: energy, industry, agriculture, transport, waste
- Observed changes: temperature rise, sea-level rise, extreme weather events
- Impacts on water resources, agriculture, health, and biodiversity in South Africa
- Policy landscape: UNFCCC, Kyoto Protocol, Paris Agreement, National Climate Change Response
- Introduction to climate models and scenarios
- Group discussion: Climate change in your sector/community

Day 2: Energy Systems, Mitigation Strategies, and Adaptation

- Energy mix in South Africa: coal, renewables, nuclear, gas
- Renewable energy technologies: solar, wind, hydro, biomass, geothermal
- Energy efficiency and conservation: measures and benefits
- Carbon footprint assessment and reduction strategies
- Mitigation approaches: carbon capture, storage, and offsetting
- Adaptation strategies: water management, climate-smart agriculture, disaster risk reduction
- Just transition: social and economic implications for South Africa
- Case studies and group work: developing a climate action plan for a local context

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	Mombasa, Kenya
30 Sep 2026	01 Oct 2026	On-Campus	London, UK
01 Oct 2026	02 Oct 2026	On-Campus	Maseru, Lesotho
01 Oct 2026	02 Oct 2026	On-Campus	Victoria Falls, Zimbabwe
05 Oct 2026	06 Oct 2026	On-Campus	Mbabane, Eswatini
05 Oct 2026	06 Oct 2026	On-Campus	Lusaka, Zambia
06 Oct 2026	07 Oct 2026	On-Campus	Bangkok, Thailand
06 Oct 2026	07 Oct 2026	On-Campus	Nairobi, Kenya

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-0527) 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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