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

Energy Efficiency in Buildings

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0464 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips participants with the knowledge and skills to enhance energy efficiency in buildings, reducing operational costs and environmental impact. It covers the principles of energy management, building systems, and practical strategies for implementing energy-saving measures.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0464
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 energy auditing techniques to identify inefficiencies in building systems.
- Analyze energy consumption data to establish baseline performance and set improvement targets.
- Evaluate the cost-effectiveness of energy efficiency measures using life-cycle cost analysis.
- Design an energy management plan tailored to a specific building's needs.
- Implement behavioral and operational changes to reduce energy waste.
- Demonstrate compliance with relevant South African energy efficiency regulations and standards.

WHO SHOULD ATTEND

- Facility managers, building owners, energy consultants, and professionals involved in building operations and maintenance who seek to improve energy performance.

COURSE OUTLINE

Day 1: **Foundations of Energy Efficiency in Buildings**

- Overview of energy use in buildings: lighting, HVAC, water heating, and equipment
- Building physics: heat transfer, insulation, air leakage, and thermal bridging
- South African energy regulations and standards (SANS 10400-XA, SANS 50001, and Green Building Council SA tools
- Introduction to energy auditing: types, processes, and key metrics (EUI, etc.
- Passive design strategies: orientation, shading, glazing, and thermal mass
- Overview of energy efficiency technologies: LED lighting, efficient HVAC, and building management systems

Day 2: **Advanced Applications and Integrated Solutions**

- Advanced HVAC systems: VRF, heat pumps, and energy recovery ventilators
- Renewable energy integration: solar PV, solar water heating, and battery storage
- Smart building technologies: BAS, IoT sensors, and energy analytics
- Financial analysis: life cycle cost, payback period, and internal rate of return
- Energy management systems: ISO 50001 and continuous improvement
- Case studies of energy efficiency retrofits in South African buildings
- Developing an energy management action plan: from audit to implementation

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	Shenzhen, China
01 Dec 2026	02 Dec 2026	On-Campus	Lagos, Nigeria
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

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-0464) 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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