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 Industry

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0463 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips industrial professionals with the knowledge and skills to implement energy efficiency measures in their operations. Participants will learn to identify energy-saving opportunities, apply best practices, and contribute to sustainability goals while reducing operational costs.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0463
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 audit techniques to assess current energy consumption patterns in industrial processes.
- Analyze energy data to identify inefficiencies and prioritize improvement opportunities.
- Evaluate the financial and environmental impact of energy efficiency projects using cost-benefit analysis.
- Design an energy management plan aligned with ISO 50001 principles and organizational goals.
- Implement energy efficiency measures, including technological upgrades and behavioral changes, to achieve measurable savings.

WHO SHOULD ATTEND

- This course is designed for engineers, maintenance managers, production supervisors, and environmental health and safety (EHS) officers working in industrial settings who are responsible for optimizing energy use.

COURSE OUTLINE

Day 1: **Fundamentals of Energy Efficiency and Energy Auditing**

- Introduction to energy efficiency: benefits, drivers, and global trends
- Overview of industrial energy systems: motors, compressed air, boilers, HVAC, lighting, and process heating
- Energy audit methodology: types, steps, and tools
- Key performance indicators (KPIs) and benchmarking
- Legislation and standards: National Energy Act, SANS 50001, and carbon tax implications
- Energy management systems (EnMS) and the Plan-Do-Check-Act cycle
- Introduction to energy measurement and monitoring equipment
- Case studies of successful energy efficiency initiatives in South African industries

Day 2: **Advanced Energy Optimization and Practical Implementation**

- Advanced system optimization: motors, compressed air, boilers, and heat recovery
- Energy efficiency in auxiliary systems: pumps, fans, and refrigeration
- Waste heat recovery and cogeneration/trigeneration
- Financial evaluation: life cycle costing, payback period, and internal rate of return
- Implementation strategies: project management, change management, and employee engagement
- Monitoring and verification of energy savings (IPMVP
- Integration with maintenance and reliability programs
- Developing an energy efficiency action plan and roadmap

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-0463) 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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