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 Infrastructure Management

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0473 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips participants with the knowledge and skills to effectively manage energy infrastructure, including planning, implementation, and maintenance of energy systems. It focuses on optimizing energy efficiency, ensuring compliance with regulations, and supporting sustainable energy practices within an organization.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0473
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 principles of energy management to develop and implement energy efficiency strategies.
- Analyze energy infrastructure components and their operational performance.
- Evaluate energy consumption data to identify opportunities for improvement.
- Design maintenance and monitoring plans for energy systems.
- Implement energy management procedures that align with regulatory requirements.
- Demonstrate the ability to communicate energy management initiatives to stakeholders.

WHO SHOULD ATTEND

- This course is designed for facility managers, energy managers, engineers, and operations personnel who are responsible for overseeing energy infrastructure and seeking to enhance their management capabilities.

COURSE OUTLINE

Day 1: **Fundamentals of Energy Infrastructure and Strategic Planning**

- Overview of energy infrastructure: electricity, gas, and renewable systems.
- Regulatory environment: NERSA, licensing, and compliance requirements.
- Asset management fundamentals: lifecycle costing, maintenance strategies.
- Risk assessment and management in energy infrastructure.
- Introduction to renewable energy technologies and integration challenges.
- Stakeholder engagement and communication strategies.
- Case studies of energy infrastructure projects in South Africa.

Day 2: **Advanced Operations, Maintenance, and Technology Integration**

- Predictive maintenance techniques: vibration analysis, thermography, oil analysis.
- SCADA systems and remote monitoring.
- Data analytics for energy efficiency and fault detection.
- Smart grid technologies: AMI, DER integration, demand response.
- Cybersecurity fundamentals for energy infrastructure.
- Emergency preparedness and disaster recovery planning.
- Project management for infrastructure refurbishment and expansion.
- Future trends: energy storage, microgrids, and hydrogen.

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	Victoria Falls, Zimbabwe
01 Dec 2026	02 Dec 2026	On-Campus	Cape Town, South Africa
02 Dec 2026	03 Dec 2026	On-Campus	Shenzhen, China
02 Dec 2026	03 Dec 2026	On-Campus	Lagos, Nigeria
03 Dec 2026	04 Dec 2026	On-Campus	Durban, South Africa
08 Dec 2026	09 Dec 2026	On-Campus	Maseru, Lesotho
08 Dec 2026	09 Dec 2026	On-Campus	Kigali, Rwanda
08 Dec 2026	09 Dec 2026	On-Campus	Accra, Ghana

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-0473) 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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