Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa
Tel: +27 12 004 8389 · Mobile: +27 65 077 6310
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COURSE BROCHURE

Energy Storage Operations and Maintenance

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0497 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips participants with the knowledge and practical skills required to operate and maintain energy storage systems safely and efficiently. It covers the principles of battery technologies, system monitoring, preventive maintenance, and troubleshooting, ensuring optimal performance and longevity of energy storage assets.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0497
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 fundamental principles of energy storage technologies to select appropriate systems for specific applications.
- Demonstrate safe operating procedures for energy storage systems, including hazard identification and risk mitigation.
- Implement preventive maintenance schedules and procedures to maximize system reliability and lifespan.
- Analyze system performance data to identify anomalies and optimize energy storage operations.
- Evaluate and apply fault-finding and troubleshooting techniques to diagnose and resolve common system failures.
- Design and document maintenance records and reports in compliance with industry standards and regulations.

WHO SHOULD ATTEND

- This course is intended for technicians, engineers, and operations personnel responsible for the day-to-day operation, maintenance, and performance monitoring of energy storage systems in industrial, commercial, or utility-scale applications.

COURSE OUTLINE

Day 1: **Fundamentals of Energy Storage Systems and Safety**

- Overview of energy storage technologies and applications
- Components of a battery energy storage system (BESS
- Safety standards and regulations (e.g., SANS, NRCS
- Risk assessment and hazard identification
- Pre-operational inspection and maintenance planning
- Introduction to monitoring and control systems
- Emergency response and first aid for electrical incidents
- Documentation and record keeping

Day 2: **Operations, Maintenance, and Troubleshooting**

- Routine maintenance procedures for batteries, inverters, and thermal management systems
- Fault finding techniques and root cause analysis
- Data monitoring, analysis, and performance optimization
- Battery health assessment and capacity testing
- Maintenance of cooling and ventilation systems
- Spare parts management and procurement
- Safety inspections and compliance audits
- Reporting and documentation standards

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-0497) 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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