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

Power System Management

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0516 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips managers and supervisors with the essential skills to effectively manage power systems within their organisations. It focuses on understanding power system components, monitoring performance, and implementing maintenance strategies to ensure reliability and efficiency.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0516
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 power system management to oversee the safe and efficient operation of electrical infrastructure.
- Analyze power system performance data to identify trends, inefficiencies, and potential risks.
- Evaluate maintenance strategies and implement preventive and predictive maintenance programs.
- Design response plans for power system emergencies and outages to minimize downtime.
- Demonstrate compliance with relevant regulations, standards, and safety requirements in power system management.
- Implement continuous improvement initiatives to enhance power system reliability and cost-effectiveness.

WHO SHOULD ATTEND

- This course is designed for managers, supervisors, and technical staff responsible for the operation and maintenance of power systems in industrial, commercial, or utility settings.

COURSE OUTLINE

Day 1: **Fundamentals of Power System Management**

- Overview of power systems: generation, transmission, distribution, and loads
- Power system components: transformers, circuit breakers, switchgear, and protection relays
- Load characteristics and demand forecasting
- Power flow analysis basics
- Voltage and frequency control fundamentals
- Power system stability concepts
- Regulatory framework and industry standards in South Africa
- Introduction to power system management tools and software

Day 2: **Advanced Applications and Practical Integration**

- SCADA systems and real-time monitoring
- Fault analysis and protection coordination
- Renewable energy integration and microgrids
- Demand response and load shedding strategies
- Power quality management and mitigation
- Asset management and predictive maintenance
- Emergency preparedness and blackout recovery
- Case studies and best practices in power system management

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-0516) 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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