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

Power Quality Management

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0517 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips participants with the knowledge and skills to manage power quality in electrical systems, ensuring efficient and reliable operation. It covers the identification, analysis, and mitigation of power quality issues, aligning with industry standards and best practices.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0517
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 power quality principles to identify and classify disturbances in electrical systems.
- Analyze power quality data using appropriate measurement tools and software.
- Evaluate the impact of poor power quality on equipment and operations.
- Design and implement mitigation strategies to improve power quality.
- Demonstrate compliance with relevant standards and regulations in power quality management.
- Implement a power quality monitoring and maintenance plan.

WHO SHOULD ATTEND

- This course is designed for electrical engineers, technicians, facility managers, and maintenance personnel responsible for the operation, maintenance, and design of electrical power systems.

COURSE OUTLINE

Day 1: **Fundamentals of Power Quality**

- Introduction to power quality: definitions, costs, and benefits
- Voltage sags and swells: characteristics, sources, and effects
- Harmonics: sources, effects, and THD calculations
- Transients and surges: types, causes, and mitigation
- Power quality standards and regulations in South Africa
- Overview of power quality monitoring equipment and techniques

Day 2: **Advanced Power Quality Management and Mitigation**

- Power quality assessment and troubleshooting methodologies
- Mitigation techniques for sags, swells, and interruptions (e.g., DVR, UPS
- Harmonic filtering and power factor correction
- Transient protection: surge arresters and TVSS
- Power quality management systems and standards compliance
- Case studies: industrial, commercial, and renewable energy integration

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-0517) 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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