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

Smart Metering

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0561 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips participants with the knowledge and skills to effectively implement, manage, and maintain smart metering systems. It covers the principles of smart metering technology, data collection and analysis, and the integration of smart meters with existing infrastructure. By the end, participants will be able to optimize energy usage, improve billing accuracy, and support sustainable energy management practices.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0561
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 the fundamental principles and technologies of smart metering to real-world scenarios.
- Analyze smart meter data to identify consumption patterns and detect anomalies.
- Evaluate the performance of smart metering systems against industry standards and regulatory requirements.
- Design a basic smart metering deployment plan considering network architecture and security.
- Implement smart metering solutions, including installation, configuration, and commissioning procedures.
- Demonstrate the ability to troubleshoot common smart metering issues and ensure system reliability.

WHO SHOULD ATTEND

- This course is designed for technical professionals, energy managers, utility engineers, and field technicians who are involved in the deployment, operation, or maintenance of smart metering systems.
- It is also suitable for professionals transitioning into the smart energy sector.

COURSE OUTLINE

Day 1: **Fundamentals of Smart Metering**

- Introduction to smart metering and its role in the energy sector
- Components of a smart metering system (meters, communication modules, data concentrators
- Types of smart meters (electricity, water, gas) and their features
- Communication technologies (PLC, RF mesh, cellular, etc.) and their applications
- Data management and cybersecurity basics
- Regulatory framework and South African standards (NRS, SANS
- Benefits to utilities and consumers
- Challenges and considerations in smart metering deployment

Day 2: **Advanced Applications and Implementation**

- Advanced data analytics: load profiling, demand forecasting, and tamper detection
- Demand response and time-of-use tariffs
- Remote disconnect/reconnect and prepaid metering solutions
- Integration with renewable energy sources and electric vehicle charging
- Smart metering in water and gas utilities
- Troubleshooting common issues and maintenance best practices
- Project planning and deployment strategies
- Future trends: smart grids, IoT, and AI in metering

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-0561) 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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