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
Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Energy Digitalisation

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0560 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips professionals with the knowledge and skills to drive digital transformation in the energy sector. Participants will learn to leverage digital technologies to optimize energy production, distribution, and consumption, while addressing challenges such as data integration, cybersecurity, and regulatory compliance.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0560
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 digital technologies to improve energy efficiency and sustainability.
- Analyze energy data to identify trends, optimize performance, and support decision-making.
- Evaluate digitalisation opportunities and risks within the energy value chain.
- Design digitalisation strategies aligned with organisational goals and regulatory requirements.
- Implement digital solutions for energy monitoring, control, and automation.
- Demonstrate the ability to manage change and stakeholder engagement during digital transformation.

WHO SHOULD ATTEND

- This course is designed for energy sector professionals, including engineers, project managers, IT specialists, and operations managers, who are involved in or responsible for digitalisation initiatives.

COURSE OUTLINE

Day 1: **Foundations of Energy Digitalisation**

- Introduction to energy digitalisation: concepts and scope
- Digital technologies: IoT, AI, big data, blockchain, and cloud computing
- Smart grids and smart metering: fundamentals
- Data analytics for energy: collection, management, and visualisation
- Cybersecurity and data privacy in energy systems
- South African energy context: Eskom, municipalities, and renewable energy integration
- Regulatory frameworks: NERSA, SARETEC, and industry standards
- Case studies: digitalisation in South African energy projects

Day 2: **Implementation and Advanced Applications**

- Digital twin technology for energy assets
- Predictive maintenance and asset management
- Demand response and distributed energy resources management
- Integration of renewable energy with digital platforms
- Energy management systems (EMS) and building management systems (BMS
- Project management for digitalisation initiatives
- Cost-benefit analysis and ROI of digitalisation
- Future trends: AI, edge computing, and 5G in energy

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-0560) 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.

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 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za