



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

Basic Water Equipment Electrical Mechanical Operation Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 113941 · NQF Level 1 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the fundamental knowledge and skills to safely and effectively operate electrical and mechanical components of basic water equipment, such as pumps, motors, and valves. It covers operational principles, routine maintenance procedures, and safety protocols to ensure reliable water supply operations in municipal and industrial contexts.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	113941
Accreditation	SAQA Accredited · NQF Level 1 · 4 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safety procedures when working with electrical and mechanical water equipment.
- Demonstrate the correct starting, operating, and stopping procedures for basic water pumps and motors.
- Identify and describe the function of key electrical and mechanical components in water equipment.
- Perform routine inspections and basic maintenance tasks on water equipment according to manufacturer guidelines.
- Analyze common operational faults and take corrective action within scope of responsibility.
- Implement energy-efficient operation practices for water equipment.

WHO SHOULD ATTEND

- This course is designed for water treatment plant operators, maintenance technicians, and field workers who require foundational understanding of water equipment electrical and mechanical systems.

COURSE OUTLINE

Day 1: Introduction to Water Equipment Electrical & Mechanical Operation

- Overview of water equipment types (pumps, valves, motors).
- Basic electrical principles: voltage, current, resistance.
- Mechanical components: bearings, seals, impellers.
- Introduction to control systems: starters, relays, sensors.
- Safety protocols: lockout/tagout, PPE, electrical safety.
- Reading simple wiring diagrams and mechanical drawings.
- Common faults: overheating, vibration, leaks.
- Preventative maintenance basics.

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 1**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 12,800.00	R 12,800.00
1	In-House	R 16,600.00	R 16,600.00
1	On-Campus (Pretoria)	R 19,200.00	R 19,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	03 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	04 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	04 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	05 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Mauritius
07 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	10 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	11 Aug 2026	On-Campus	Abu Dhabi, UAE

Contact us if no suitable date is listed – on-demand sessions can be arranged for groups.

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 113941) and click **Get A Quote / Apply**. 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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