



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

Assess The Performance Of A Heat Exchanger And Take Appropriate Action Training

Health Sciences and Social Services / Preventive Health

Unit Standard 120326 · NQF Level 4 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to assess the performance of a heat exchanger, identify deviations from expected operation, and take appropriate corrective actions. It covers key performance indicators, inspection techniques, and decision-making processes to ensure optimal heat exchanger efficiency and reliability in industrial settings.

Category	Health Sciences and Social Services
Subfield	Preventive Health
Unit Standard	120326
Accreditation	SAQA Accredited · NQF Level 4 · 3 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply performance indicators to evaluate heat exchanger efficiency and identify deviations.
- Analyze operational data, including temperature, pressure, and flow rates, to diagnose performance issues.
- Evaluate the condition of heat exchanger components through visual inspection and non-destructive testing methods.
- Implement corrective actions such as cleaning, repair, or replacement based on assessment findings.
- Document assessment results and actions taken according to standard operating procedures and regulatory requirements.

WHO SHOULD ATTEND

- This course is designed for process operators, maintenance technicians, and engineering supervisors responsible for monitoring and maintaining heat exchangers in industries such as petrochemical, power generation, and manufacturing.

COURSE OUTLINE

Day 1: Heat Exchanger Performance Assessment and Corrective Action

- Introduction to heat exchangers: types, applications, and operating principles.
- Heat transfer fundamentals: conduction, convection, and overall heat transfer coefficient.
- Performance metrics: approach temperature, effectiveness, fouling factor, and pressure drop.
- Data collection and interpretation: measuring temperatures, flow rates, and pressures.
- Troubleshooting common issues: fouling, scaling, corrosion, and flow imbalances.
- Corrective actions: cleaning methods, flow adjustments, and maintenance scheduling.
- Safety considerations: lock-out/tag-out, pressure hazards, and thermal burns.
- Documentation and reporting: recording performance data and actions taken.

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 **3 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 9,400.00	R 9,400.00
1	In-House	R 12,200.00	R 12,200.00
1	On-Campus (Pretoria)	R 14,100.00	R 14,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
21 Aug 2026	21 Aug 2026	On-Campus	Durban, South Africa
24 Aug 2026	24 Aug 2026	On-Campus	Harare, Zimbabwe
25 Aug 2026	25 Aug 2026	On-Campus	Bangkok, Thailand
26 Aug 2026	26 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
26 Aug 2026	26 Aug 2026	On-Campus	Abu Dhabi, UAE
27 Aug 2026	27 Aug 2026	On-Campus	Durban, South Africa
28 Aug 2026	28 Aug 2026	On-Campus	Shenzhen, China
31 Aug 2026	31 Aug 2026	On-Campus	Bangkok, Thailand

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 120326) 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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