



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

Vapour Production And Condensate Removal Maintenance Training

Agriculture and Nature Conservation / Secondary Agriculture

Unit Standard 114303 · NQF Level 2 · 7 Credits · 4 Days

COURSE OVERVIEW

This course equips maintenance and operations personnel with the essential knowledge and skills to safely produce vapour and effectively remove condensate in industrial steam systems. Participants will learn to optimize system performance, prevent energy losses, and ensure compliance with safety standards.

Category	Agriculture and Nature Conservation
Subfield	Secondary Agriculture
Unit Standard	114303
Accreditation	SAQA Accredited · NQF Level 2 · 7 Credits
Duration	4 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply principles of vapour production and condensate removal to maintain efficient steam systems.
- Analyze steam system components to identify and rectify common faults.
- Evaluate condensate recovery methods to improve energy efficiency.
- Implement safe work procedures for vapour and condensate system maintenance.
- Demonstrate proper use of steam traps and condensate removal equipment.
- Design preventive maintenance schedules for vapour production and condensate systems.

WHO SHOULD ATTEND

- Maintenance technicians, plant operators, and engineering staff responsible for steam systems in manufacturing, processing, or industrial facilities.

COURSE OUTLINE

Day 1: Fundamentals of Vapour Production and Steam Systems

- Introduction to vapour production and the steam cycle
- Properties of steam: temperature, pressure, and enthalpy
- Components of a steam boiler: furnace, tubes, drums, and controls
- Types of boilers: fire-tube and water-tube
- Feedwater treatment and its importance
- Safety considerations: pressure relief, water level control
- Overview of steam distribution systems

Day 2: Steam Distribution and Condensate Removal Principles

- Steam distribution: piping, insulation, and pressure reduction
- Condensate formation: heat transfer and latent heat
- Steam trap fundamentals: purpose and operating principles
- Types of steam traps: mechanical, thermostatic, thermodynamic
- Selection criteria for steam traps
- Condensate recovery systems and energy efficiency
- Piping layout for effective condensate drainage

Day 3: Maintenance of Steam Traps and Condensate Systems

- Steam trap inspection methods: visual, temperature, and acoustic
- Testing steam traps: using sight glasses, test valves, and ultrasonic
- Common faults: steam leakage, blockage, and wear
- Maintenance procedures: cleaning, repair, and replacement
- Condensate pump maintenance
- Safety precautions: lockout/tagout, pressure isolation
- Record keeping and documentation

Day 4: System Optimization and Practical Application

- Troubleshooting methodology: systematic approach
- Energy efficiency: reducing steam losses, improving insulation
- Condensate removal optimization: proper trap sizing and location
- Developing a preventive maintenance schedule
- Case studies: common problems and solutions
- Review of safety and regulatory compliance
- Final assessment and course wrap-up

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 **7 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 20,500.00	R 20,500.00
1	In-House	R 26,600.00	R 26,600.00
1	On-Campus (Pretoria)	R 30,800.00	R 30,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	13 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	13 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	13 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	13 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	13 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	13 Aug 2026	On-Campus	Mauritius
18 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
18 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa

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 114303) 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.

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