



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

Refrigerant Handling and Recovery

Custom Courses / Engineering & Technical Maintenance

Unit Standard AATICD-0258 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips participants with the knowledge and practical skills to safely handle, recover, and dispose of refrigerants in compliance with South African environmental regulations and safety standards. It covers proper use of recovery equipment, leak detection, and documentation procedures to minimize environmental impact and ensure workplace safety.

Category	Custom Courses
Subfield	Engineering & Technical Maintenance
Unit Standard	AATICD-0258
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safe handling procedures for various types of refrigerants in accordance with OHS Act and SANS 10147.
- Demonstrate correct use of refrigerant recovery, recycling, and reclaiming equipment.
- Analyze refrigerant system components to identify potential leaks and environmental hazards.
- Implement proper storage, transport, and disposal methods for recovered refrigerants.
- Evaluate compliance with relevant environmental legislation and industry codes of practice.
- Document refrigerant recovery activities accurately for regulatory reporting.

WHO SHOULD ATTEND

- Technicians, engineers, and maintenance personnel involved in the installation, servicing, or decommissioning of refrigeration and air-conditioning systems.

COURSE OUTLINE

Day 1: Introduction to Refrigerants and Environmental Impact

- Overview of the refrigeration cycle
- Types of refrigerants: CFCs, HCFCs, HFCs, HFOs, natural refrigerants
- Ozone depletion potential (ODP) and global warming potential (GWP)
- Legislation: Montreal Protocol, Kyoto Protocol, SA Ozone Protection Regulations
- Environmental and safety hazards of refrigerant leaks
- Principles of reduce, reuse, recover, recycle

Day 2: Refrigerant Handling Safety and Tools

- PPE requirements: gloves, goggles, safety shoes, ventilation
- Handling tools: manifold gauges, recovery units, vacuum pumps, leak detectors
- Cylinder identification: colour codes, pressure ratings, valve types
- Safe transport and storage of refrigerant cylinders
- MSDS interpretation and emergency response
- First aid for refrigerant exposure

Day 3: Refrigerant Recovery Principles and Procedures

- Recovery vs recycling vs reclamation
- Recovery unit types: passive, active, self-contained
- System preparation: isolating, removing oil, clearing lines
- Step-by-step recovery procedure for split systems, chillers, and automotive AC
- Measuring recovered refrigerant: weight, pressure, temperature
- Documentation and reporting requirements

Day 4: Leak Detection and System Integrity

- Leak detection methods: electronic, ultrasonic, bubble, dye, halide torch
- Common leak points: joints, valves, seals, evaporators, condensers
- Evacuation theory: deep vacuum, triple evacuation
- Using vacuum pumps and micron gauges
- Recharging systems: liquid vs vapour charging, critical charge
- Record keeping for leak tests and repairs

Day 5: Compliance, Certification, and Practical Integration

- Overview of SAQA unit standard AATICD-0258
- Roles and responsibilities of certified handlers
- Environmental compliance and reporting
- Review of key procedures and safety protocols
- Mock assessment: recovery, leak detection, evacuation
- Final written and practical assessment

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 **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	21 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
24 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
31 Aug 2026	04 Sep 2026	On-Campus	Lusaka, Zambia
31 Aug 2026	04 Sep 2026	On-Campus	London, UK

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 AATICD-0258) 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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