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Provider



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FULLY ACCREDITED TRADE TEST & TRAINING CENTRE

Accreditation Numbers

AC000173NAMB
SDP1220/18/00370
17-QA/ACC/0357/09/MER
07-QCTO/SDP070921-2873
AC000367NAMB
SDP1223/19/00356
05-QCTO/SDP070921-2874

Air Conditioning and Refrigeration Academy

KwaZulu Natal Branch

21 Nipper Road, New Germany,
Pine Town, KZN, 3620
Tel: (031) 202 3103
acrakzn@acra.co.za

Gauteng Branch (Head Office)

203 Element Road, Chloorkop, Kempton Park, 1619
Tel: (011) 393 1642, (011) 609 1118, 082 936 4183
VAT. NO. 476 018 8229
PO Box 1709, Edenvale, 1610 | info@acra.co.za

Northern Cape Branch

71-75 De Beers Road, Kimberley, 8301
Tel: (053) 833 1903
acranc@acra.co.za

Course Brochure 2026

JOHANNESBURG | KWAZULU NATAL | NORTHERN CAPE



YOUR PARTNER TO BECOME A SKILLED / QUALIFIED ARTISAN

TRAINING OVERVIEW

The Academy has the resources to train all aspects of the Air conditioning and refrigeration fields up to NQF Level 4 and Trade Test. The emphasis is in the training of apprentices, artisans, technicians as well as aspects for management requiring technical knowledge. The training is specialised to the fields of air conditioning, refrigeration and ventilation. The training is competency based, meaning, any student attending a course is given an in depth theoretical knowledge and the practical skills in order to achieve competency in the workplace. Given the nature of the training required all courses have a full practical element. The aim of all the training is such that on successful completion of any particular course the student will be competent to do the job as required.

HISTORY

ACRA's roots date back to 1961. In its current form ACRA opened its doors in August 1998 in Johannesburg followed by Durban in 2018 and our latest branch in Kimberley 2019. Our Lecturers have trained students from the entire industry and have achieved international status training people from several of the Southern African countries and as far afield as Australia and Canada. The Academy became an accredited NAMB/ QCTO Decentralised Trade Testing Centre in 2003. The academy is involved with international organisations such as GIZ Proklima (Germany), the United Nations and UNIDO, AUDA-NEPAD the African Union and the European Union. The Academy is involved with National Government Department of Forestry, Fisheries and the Environment, the National Ozone Unit, QCTO and NAMB.

TRAINING OFFERED AT ACRA

Courses:

1. Air Conditioning and Refrigeration Technology 1 Course	- Basic	(10 Days)
2. Air Conditioning and Refrigeration Technology 2 Course	- Intermediate	(10 Days)
3. Air Conditioning and Refrigeration Technology 3 Course	- Intermediate/Advanced	(10 Days)
4. Air Conditioning And Refrigeration Technology 4 Course	- Diploma Section Advanced	(10 Days)
5. Electrical 1 Course (pertaining to Air Conditioning and Refrigeration)	- Basic	(10 Days)
6. Electrical 2 Course (pertaining to Air Conditioning and Refrigeration)	- Intermediate	(10 Days)
7. Electrical 3 Course (pertaining to Air Conditioning and Refrigeration)	- Intermediate/Advanced	(10 Days)
8. Installation, Fault Finding, Maintain&Repair of Split, Console and Window Units Course	- Basic	(10 days)
9. Authorised Practitioners Safe Handling of Refrigerants (new)	-Freons, HC's, CO2	(05 Days)
10. Renewal Authorised Refrigeration Practitioner Course (renewal)	-Freons, HC's, CO2	(02 days)
11. Authorised <i>Ammonia</i> Refrigeration Practitioners (Ammonia Cat A and B) (new)	-Ammonia Safe Handling License	(05 Days)
12. Renewal Authorised <i>Ammonia</i> Practitioners (Ammonia Cat A and B)	-Ammonia Safe Handling License	(02 Days)
13. Certificate of Conformance (COC) (Portfolio needs to be completed)	-for Trade Tested Candidates	(01 Day+Portfolio)
14. Vehicular Air Conditioning (Automotive and Earthmoving / Mining Equipment)		(10 Days)
15. Welding, Brazing & Cutting Course		(10 Days)

The ACRA Diploma consists of the following courses:

1. Air Conditioning and Refrigeration Technology 1 Course	- Basic	(10 Days)
2. Electrical 1 Course (pertaining to Air Conditioning and Refrigeration)	- Basic	(10 Days)
3. Installation, Fault Finding, Maintain&Repair of Split, Console and Window Units Course	- Basic	(10 Days)
4. Air Conditioning and Refrigeration Technology 2 Course	- Intermediate	(10 Days)
5. Electrical 2 Course (pertaining to Air Conditioning and Refrigeration)	- Intermediate	(10 Days)
6. Authorised Refrigeration Practitioner Course	- Safe Handling License	(05 Days)
7. Electrical 3 Course (pertaining to Air Conditioning and Refrigeration)	- Intermediate/Advanced	(10 Days)
8. Air Conditioning and Refrigeration Technology 3 Course	- Intermediate/Advanced	(10 Days)
9. Air Conditioning And Refrigeration Technology 4 Course	- Diploma Section Advanced	(10 Days)

17 weeks in total

The Diploma Explained:

The Diploma encompasses most of the training that an Air Conditioning and Refrigeration Technician needs to be competent.

Course Objectives, Outcomes, Prices and Dates are outlined individually from page 3 onwards.

It is not necessary to complete all the courses at once, training can be broken up into sections.

Trade Testing - Refrigeration Mechanic:

Trade Test Revision	(approximately 05 - 10 Days)
Trade Test Test	(02 Days)

Apprenticeships:

Apprenticeship - Refrigeration Mechanic	Duration: <u>3 years</u>
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Course Name *Air Conditioning and Refrigeration Technology 1*

Entry Requirements	Basic Literacy and Numeracy.		Duration	10 days
Course Times	Monday - Friday 08h00 until 15h30		Cost	R 19 850,00 incl. vat
Objectives	This course represents all of the fundamental aspects of the theoretical knowledge and practical skills required by all persons wishing to work in the air conditioning and/or the refrigeration fields. This course forms the foundation and as such it is imperative that all persons complete the course. Technology 2, 3 and the diploma course follow. No previous knowledge or experience is required. The course has a full theory and practical component in our accredited workshops.			
Outcomes	Upon successful completion of this course the student will have the understanding of safety procedures, refrigerants, the Vapour Compression Cycle / Basic Thermodynamics. Tooling, Safety, Components and Accessories, Pipework (Copper, Aluminium), Servicing, Repair and Installation procedures. The student will be able to perform the applicable practical aspects on the job site. The student has the opportunity to further his studies. The range of study progresses through air conditioning and refrigeration to and including large central plants. It is strongly advised that students and companies consider the electrical course and technology 2 course.			
Example of Skills	Safety / risk assessment / pipe work / evacuation / flaring / swaging/ charging / recovery / testing / tools and instruments / safety / refrigerants / refrigerant containers / basic thermo dynamics / basic refrigeration cycle / fittings / trade related tools / refrigerants / air conditioning and refrigeration components manifold gauges, service valves, operation and setting of expansion devices, setting pressure switches.			
<u>Johannesburg Dates</u>	05 Jan - 16 Jan 2026 04 May - 15 May 2026 24 Aug - 04 Sep 2026	02 Feb - 13 Feb 2026 01 Jun - 12 Jun 2026 28 Sep - 09 Oct 2026	02 Mar - 13 Mar 2026 29 Jun - 10 Jul 2026 02 Nov - 13 Nov 2026	30 Mar - 10 Apr 2026 27 Jul - 07 Aug 2026 30 Nov - 11 Dec 2026
<u>Durban Dates</u>	05 Jan - 16 Jan 2026 24 Aug - 04 Sep 2026	02 Mar - 13 Mar 2026 12 Oct - 23 Oct 2026	04 May - 15 May 2026 09 Nov - 20 Nov 2026	22 Jun - 03 Jul 2026 07 Dec - 18 Dec 2026
<u>Kimberley Dates</u>	05 Jan - 16 Jan 2026 26 Oct - 06 Nov 2026	13 Apr - 24 Apr 2026 07 Dec - 18 Dec 2026	20 Jul - 31 Jul 2026	21 Sep - 02 Oct 2026

Course Name *Electrical 1 (Basic Principles of Electricity pertaining to Air Conditioning and Refrigeration)*

Entry Requirements	Technology 1 incl. Basic Literacy and Numeracy.		Duration	10 days
Class Times	Monday - Friday 08h00 until 15h30		Cost	R 19 850,00 incl. vat
Objectives	This course represents all of the fundamental electrical aspects, theoretical knowledge and practical skills required by all persons wishing to work in the air conditioning and/or the refrigeration fields. This course forms the foundation of the electrical aspects and as such it is imperative that all persons complete the course. Electrical two and three courses follow. No previous electrical knowledge is required but Technology One should have been completed. The course has a full theory and practical component in our accredited workshop. The course compliments the Technology 1 as well as the unitary air conditioning course.			
Outcomes	Upon successful completion of this course the student will have the understanding and the practical skills in relation to Air Conditioning and Refrigeration electrical systems. Understand Ohm's Law, Kirchhoff's Law, Volt, current, resistance, energy and power, alternating current and direct current, magnetic fields and flux, power generation, conductors, components, accessories, symbols, basic electrical layouts, dangers of electricity and potential hazards as well as methods to prevent injuries. Electrical controls, components and circuits.			
Example of Skills	Identify, select and the use of electrical tools and instruments. Identify, test and connect electrical conductors (jointing, installation and termination methods) Install trunking. Read and interpret diagrams. Maintain electrical systems including controls, components, accessories, motors and panels. Electrically isolation, maintenance procedures of electrical panels and switch gear, components and conductors paying attention to loose connections.			
<u>Johannesburg Dates</u>	19 Jan - 30 Jan 2026 18 May - 29 May 2026 12 Oct - 23 Oct 2026	16 Feb - 27 Feb 2026 15 Jun - 26 Jun 2026 16 Nov - 27 Nov 2026	16 Mar - 27 Mar 2026 11 Aug - 21 Aug 2026	13 Apr - 24 Apr 2026 07 Sep - 18 Sep 2026
<u>Durban Dates</u>	19 Jan - 30 Jan 2026 07 Sep - 18 Sep 2026	23 Mar - 02 Apr 2026 26 Oct - 06 Nov 2026	18 May - 29 May 2026	13 Jul - 24 Jul 2026
<u>Kimberley Dates</u>	02 Feb - 13 Feb 2026 12 Oct - 23 Oct 2026	02 Mar - 13 Mar 2026 23 Nov - 04 Dec 2026	18 May - 29 May 2026	03 Aug - 14 Aug 2026

Course Name **Air Conditioning and Refrigeration Technology 2**

Entry Requirements	Technology 1 and Electrical One incl. Basic Literacy and Numeracy.	Duration	10 days
Class Times	Monday - Friday 08h00 until 15h30	Cost	R 19 850,00 incl. vat

Objectives	This course represents the intermediate aspects of the theoretical knowledge and practical skills required by all persons wishing to work in the air conditioning and/or the refrigeration fields. This course forms the second stage and as such is imperative that all persons complete the course. Technology 3 and the diploma course follow. The course has a full theory and practical component in our accredited workshop.		
Outcomes	Upon successful completion of this course the student will have the understanding of the intermediate aspects of refrigeration and air conditioning. Superheat measurement, setting and the importance thereof, sub-cooling, LP and HP Pressure switch setting determination and actual setting on an installation, Basic refrigeration commissioning techniques and procedures. Types of refrigeration systems, types of air conditioning systems, evaporative coolers, air conditioning components, heating, critical charging, compressor testing, fault finding, drives and couplings. Students have the opportunity to further their studies. The range of study progresses through air conditioning and refrigeration to and including large central plants.		
Example of Skills	Fault finding / basic commissioning / procedures on walk in fridges / freezer / air con units / critical charging / humidity / recovery of refrigerants/ servicing/ belt drives tensioning and alignment / couplings / bearings / various systems and their operation and application / controls and safety devices / vapour barriers.		

Johannesburg Dates	05 Jan - 16 Jan 2026 15 Jun - 26 Jun 2026	16 Feb - 27 Feb 2026 03 Aug - 14 Aug 2026	23 Mar - 02 Apr 2026 05 Oct - 16 Oct 2026	18 May - 29 May 2026 16 Nov - 27 Nov 2026
Durban Dates	12 Jan - 23 Jan 2026 11 Aug - 21 Aug 2026	16 Feb - 27 Feb 2026 14 Sep - 25 Sep 2026	04 May - 15 May 2026 12 Oct - 23 Oct 2026	15 Jun - 26 Jun 2026 30 Nov - 11 Dec 2026
Kimberley Dates	16 Mar - 27 Mar 2026	15 Jun - 26 Jun 2026	07 Sep - 18 Sep 2026	23 Nov - 04 Dec 2026

Course Name **Electrical 2 (Single Phase Electricity pertaining to Air Conditioning and Refrigeration)**

Entry Requirements	Technology 1, Electrical One and Technology 2 including Basic Literacy and Numeracy.	Duration	10 days
Class Times	Monday - Friday 08h00 until 15h30	Cost	R 19 850,00 incl. vat

Objectives	This course represents the intermediate electrical aspects of the theoretical knowledge and practical skills required by all persons wishing to work in the air conditioning and/or the refrigeration fields. The course has a full theory and practical component in our accredited workshop. The course compliments the Technology 1, 2 and Electrical 1 courses as well as the unitary air conditioning range of courses. This course focuses on single phase systems.		
Outcomes	Upon successful completion of this course the student will have the understanding and the practical skills pertaining to the interpretation of single phase circuits wiring diagrams, the wiring of control panels, electrical motors and starters (Single phase) applicable to air conditioning and refrigeration systems. Inspection and maintenance of electrical panels, electrical motors, starter panels and circuits. Fault-finding and repairing single phase electrical panels, electrical motors, starter panels and circuits. Construction of single phase electrical motors, starter circuits. Operation and testing of electrical motors.		
Example of Skills	Connect basic controls, components, accessories and motors with the correctly identified cabling/conductors. Test operation of the circuit and electrical components in the system and take corrective action if needed. Identify electrical controls, components, accessories and motors from drawings. Construct complete electrical system including controls, components, accessories, motors and panel with the correctly identified cabling/conductors. Fault-find electrical circuits and equipment in the air conditioning and/or the refrigeration fields. (Single phase) Test and connect electrical motors (Single phase)		

Johannesburg Dates	19 Jan - 30 Jan 2026 29 Jun - 10 Jul 2026 30 Nov - 11 Dec 2026	02 Mar - 13 Mar 2026 24 Aug - 04 Sep 2026	07 Apr - 17 Apr 2026 21 Sep - 02 Oct 2026	01 Jun - 12 Jun 2026 19 Oct - 30 Oct 2026
Durban Dates	02 Mar - 13 Mar 2026	29 Jun - 10 Jul 2026	26 Oct - 06 Nov 2026	
Kimberley Dates	04 May - 15 May 2026	06 Jul - 17 Jul 2026	07 Dec - 18 Dec 2026	

Course Name**Air Conditioning and Refrigeration Technology 3**

Entry Requirements	Completion of Technology 1, Technology 2, Electrical 1 & Electrical 2 incl. Basic Literacy and Numeracy.			Duration	10 days
Class Times	Monday - Friday 08h00 until 15h30			Cost	R 19 850,00 incl. vat
Objectives	On successful completion of this course the student will have the necessary knowledge and practical skills to perform more of the advanced aspects of the trade related to central plants / ducted / indirect systems. Chillers, air delivery systems, filtration, water reticulation systems form the focal point of this course. Includes basic psychometrics, air flow and air changes. This course is the third phase of the diploma course but may be used alone ending at this level.				
Outcomes	Relative humidity and product classifications in refrigeration applications, multiplex refrigeration systems, refrigeration and air conditioning system burn out procedures, central and industrial air conditioning systems, maintenance schedules, air distribution equipment, air cleaning equipment and filtration, lubrication, water reticulation equipment, ventilation and ventilation rate determination and measurement, airflow measurement, heating, basic psychometrics, water treatment methodology and systems.				
Example of Skills	Air flow balancing, ventilation rates, developing and applying maintenance schedules, burn out procedures, ventilation rate measurement, air flow measurements, commissioning, lubrication, fans and pumps and basic psychometrics, central plant layouts.				
<u>Johannesburg Dates</u>	16 Mar - 27 Mar 2026 02 Nov - 13 Nov 2026	04 May - 15 May 2026	13 Jul - 24 Jul 2026	07 Sep - 18 Sep 2026	
<u>Durban Dates</u>	16 Mar - 27 Mar 2026	15 Jun - 26 Jun 2026	17 Jul - 07 Aug 2026	09 Nov - 20 Nov 2026	
<u>Kimberley Dates</u>	18 May - 29 May 2026				

Course Name**Electrical 3 (Three Phase Electricity pertaining to Air Conditioning and Refrigeration)**

Entry Requirements	Completion of Technology 1, Technology 2, Technology 3, Electrical 1, Electrical 2, incl. Basic Literacy and Numeracy.			Duration	10 days
Class Times	Monday - Friday 08h00 until 15h30			Cost	R 19 850,00 incl. vat
Objectives	This course represents the advanced three phase electrical aspects, theoretical knowledge and practical skills required by all persons wishing to work in the air conditioning and/or the refrigeration fields. The course has a full theory and practical component in our accredited workshop.				
Outcomes	Upon successful completion of this course the student will have the understanding and the practical skills for the wiring of control panels, electrical motors and starters (three phase). Interpretation of three phase circuits, sketching three phase circuits applicable to air conditioning and refrigeration systems. Inspection and maintenance of electrical panels, electrical motors, starter panels and circuits. Fault-finding and repairing three phase electrical panels, electrical motors, starter panels and circuits. Construction of three phase electrical motors and starter circuits. Operation and testing of electrical motors. The purposes of various available variable speed drives and soft starters. Wiring, inspection, maintenance, fault-finding and repairing of variable speed drives, soft starters and electronically controlled fans. Knowledge and understanding of basic electronics. Fundamental operation, construction and testing of basic electronic circuits.				
Example of Skills	Establish safety aspects (electrical isolation) Identify, test and connect electrical motors (three phase). Read, design and interpret electrical diagrams including symbols and legend requirements, basic motor controls and starters in accordance with the electrical diagrams. Construct complete electrical circuitry including controls, components, accessories, motors and panel with the correctly identified cabling/conductors. Fault-finding and testing of electrical motor circuits and equipment in the air conditioning and/or the refrigeration fields. (Three phase). Determine, conduct, verify and report on faulty components.				
Johannesburg Dates	02 Feb - 13 Feb 2026 07 Sep - 18 Sep 2026	30 Mar - 10 Apr 2026 16 Nov - 27 Nov 2026	18 May - 29 May 2026	27 Jul - 07 Aug 2026	
Durban Dates	30 Mar - 10 Apr 2026	13 Jul - 24 Jul 2026	23 Nov - 04 Dec 2026		
Kimberley Dates	08 Jun - 19 Jun 2026				

Course Name **Installation, Fault Finding, Maintain & Repair of Split, Console & Window Units**

Entry Requirements	Basic Literacy and Numeracy.	Duration	10 days
Class Times	Monday - Friday 08h00 until 15h30	Cost	R 19 850,00 incl. vat

Objectives This is a stand alone course however the candidate should complete the Authorised Refrigeration Practitioner License (Safe Handling of Refrigerants) in addition to this course. Covering the installation, maintenance and repair of unitary air conditioning units excluding repair of printed circuit boards. The repairs required including the replacement of compressors & other components, evacuation and critical charging of these units. This course includes the theory around operation of systems, the functions of the components as well as the practical aspects. Complete installation procedures of the above mentioned units are dealt with.

Outcomes Upon successful completion of this course the student will have the understanding and the basic practical skills (competencies) needed on the worksite for the installation, maintenance and repair of unitary air conditioning systems. The student will perform on actual installations as part of training. Full workshop training component.

Example of Skills For Window / Console / and split unit air conditioning: Compressor testing / Compressor replacement / burnouts / critical charging / testing / recovery of refrigerants. Full installation, all repairs, servicing and maintenance. Areas include but are not limited to: pipe work / brazing / evacuation / charging / driers / faultfinding / maintenance and vapour barrier installation.

<u>Johannesburg Dates</u>	05 Jan - 16 Jan 2026	02 Feb - 13 Feb 2026	09 Mar - 20 Mar 2026	04 May - 15 May 2026
	01 Jun - 12 Jun 2026	20 Jul - 31 Jul 2026	24 Aug - 04 Sep 2026	21 Sep - 02 Oct 2026
	26 Oct - 06 Nov 2026	07 Dec - 18 Dec 2026		

<u>Durban Dates</u>	02 Feb - 13 Feb 2026	13 Apr - 24 Apr 2026	01 Jun - 12 Jun 2026	27 Jul - 07 Aug 2026
	21 Sep - 02 Oct 2026	23 Nov - 04 Dec 2026		

<u>Kimberley Dates</u>	19 Jan - 30 Jan 2026	16 Feb - 27 Feb 2026	01 Jun - 12 Jun 2026	17 Aug - 28 Aug 2026
	09 Nov - 20 Nov 2026			

Course Name **Air Conditioning and Refrigeration Technology 4 (Diploma Section)**

Entry Requirements	Completion of Technology 1, Technology 2, Electrical 1, Electrical 2, Electrical 3 & Technology 3, Authorised Refrigeration Practitioner License, Maintenance, Fault Finding and Installation.	Duration	10 days
Class Times	Monday - Friday 08h00 until 15h30	Cost	R 19 850,00 incl. vat

Objectives This course includes the advanced aspects of air conditioning and refrigeration including central plant and air conditioning in depth. This course will enable the student to perform retrofitting work, conduct heat load calculations for quoting and installation purposes, ventilation rate calculations for commercial and industrial applications, calculation of system performance, capacity, advanced fault finding, evaporative cooling sizing and design, psychometrics and Mollier (Pressure / enthalpy) diagrams.

Outcomes Upon successful completion of this course the student will have the understanding and skills to determine a systems operating parameters from a pressure enthalpy diagram, calculation of plant capacities, C.O.P., compressor efficiency, mass flow, heat rejection, confirmation of superheat and sub-cooling etc. In addition: fault finding using a pressure enthalpy chart, heat load calculations for air conditioning and refrigeration applications, the retrofitting process, psychometrics. Although this is an in depth course the level is with-in the artisans / technicians scope of work.

This course is very popular with the medium to large corporate client running a central plant / ducted or indirect system and with persons wishing to have an in depth understanding of the trade.

Example of Skills Central plant air conditioning / advanced fault finding using Mollier diagrams / heat load calculations. Psychometrics, air flow rates and balancing, determination and calculation of ventilation rates, air changes per hour / humidity / maintenance schedules / evaporative cooling sizing and design. Properties of air, humidification, calculations involving heat & mass transfer. Air flow measurements, air changes, flow rates, duct balancing, define operating parameters, refrigerant blends/temperature glide, operational faults & remedial action. Detailed practical Mollier chart application, determination of plant capacity, C.O.P., Compression ratios, super heat & sub cooling, mass flow and fault finding.

<u>Johannesburg Dates</u>	16 Feb - 27 Feb 2026	13 Apr - 24 Apr 2026	01 Jun - 12 Jun 2026	14 Aug - 28 Aug 2026
	05 Oct - 16 Oct 2026	07 Dec - 18 Dec 2026		

<u>Durban Dates</u>	13 Apr - 24 Apr 2026	29 Jun - 10 Jul 2026	17 Aug - 28 Aug 2026	07 Dec - 18 Dec 2026
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<u>Kimberley Dates</u>	Available on Request
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Course Name**Welding, Brazing & Cutting***Electric Arc, CO2, copper to copper, Oxy/Acetylene.***Entry Requirements**

Basic Literacy and Numeracy

Duration

10 days

Class Times

Monday - Friday 08h00 until 15h30

Cost

R 19 850,00 incl. vat

Objectives

Typically for candidates working on general welding i.e.. brackets/condenser brackets. Perform basic arc welding, brazing of copper to copper, copper to brass and use of the cutting torch. Selecting and checking welding equipment and consumables. Operating welding equipment. Applying safety equipment and procedures. Ensuring suitability and strength of weld. Electric arc/CO2 and aluminium welding available.

Outcomes

On successful completion of this course the student will be able to interpret job instructions. Identify arc-welding equipment and check it for safety and suitability. Welding consumables are inspected for correct size and suitability. Metals to be welded are inspected for suitability. Things that make metals and/or consumables unsuitable are listed and discussed. Safety equipment and procedures required are listed and discussed. Arc-weld metals. Metals to be welded are prepared for welding process. Work area is inspected for fire hazard, secured and made safe. Appropriate welding process is applied. Weld is cleaned using correct procedure. Consequences of using wrong power setting or wrong consumables are listed and explained. Correct and all safety equipment is used. Apply quality checks on completed weld and correct if necessary. Visual check is conducted to ensure quality weld. Weld is checked for strength. Work-piece is checked for compliance with job sheet. Improper welded sections are made good.

Example of Skills

Arc welding, brazing, cutting, electric arc, CO2 welding, copper to copper, oxy/acetylene.

Johannesburg Dates

30 Mar - 10 Apr 2026

22 Jun - 03 Jul 2026

31 Aug - 11 Sep 2026

09 Nov - 20 Nov 2026

Durban Dates

09 Feb - 20 Feb 2026

01 Jun - 12 Jun 2026

21 Sep - 02 Oct 2026

Kimberley Dates

26 Jan - 06 Feb 2026

09 Nov - 20 Nov 2026

Course Name**Vehicular Air Conditioning (Automotive and Earthmoving / Mining Equipment)****Entry Requirements**

Basic Literacy and Numeracy

Duration

10 days

Class Times

Monday - Friday 08h00 until 15h30

Cost

R 19 850,00 incl. vat

Objectives

Anyone interested in vehicular air conditioning as well as the following industries:
Automotive Industries / Car Manufacturers / Rail / Mining / Construction / heavy Earthmoving equipment as well as their sub-contractors, Panel Beaters, Insurance Industry Assessor, Fitment Centre's.

Outcomes

On successful completion of this course the student will be able to:
Be competent to use basic tools and procedures applicable to vehicular air-conditioning. Understand principles of refrigeration, heat and unit used to express heat, specific heat, methods of heat transfer, latent and sensible heat, heat of compression, thermometers and their scales, atmospheric pressure, gauge pressure, absolute pressure, effect of pressure on boiling point of liquid, mechanical refrigeration cycle. Apply leak testing methods. Identify components and explain vehicular components and their function thereof. I.e. Compressor condenser / evaporation / receiver drier / accumulator / orifice tube / expansion valve.

Example of Skills

Repairs and maintenance including evacuation, leak testing, charging, commissioning, safety aspects, common faults and components and accessories as required for vehicular and mobile air conditioning systems.

Johannesburg Dates

12 Jan - 23 Jan 2026

02 Mar - 13 Mar 2026

13 Apr - 24 Apr 2026

01 Jun - 12 Jun 2026

27 Jul - 07 Aug 2026

21 Sep - 02 Oct 2026

09 Nov - 20 Nov 2026

Durban Dates

05 Jan - 16 Jan 2026

30 Mar - 10 Apr 2026

18 May - 29 May 2026

03 Aug - 14 Aug 2026

05 Oct - 16 Oct 2026

Kimberley Dates

30 Mar - 10 Apr 2026

Course Name **BMS Control Systems**

Entry Requirements	Basic Understanding of Computers (It could be advantageous for the candidate to have a basic understanding of Air Conditioning Systems) including Basic Literacy and Numeracy.			
Class Times	Monday - Thursday 08h00 until 15h30		Duration	4 days
			Cost	R 7940,00 incl. vat
Objectives	Control Basics - Have a basic understanding of the control process. Describe what a sensor is, its use and where sensors should be located. Describe how a controller works and how it can be used. Introduction to Direct Digital Control (DDC) - Describe what a DDC is and have a basic understanding of the functions these devices can perform. Describe common terminologies used by a DDC. Understand the fundamentals of how PID loops function. Describe some basic programming blocks used in a DDC configuration. DDC Networking Basics - Have an understanding of why we network DDC's. Understand how DDC's communicate and share information. DDC Programming Basics - Describe a DDC program. Understand the basics of configuration logic and how the program works.			
Outcomes	On successful completion of this course the student will be able to write basic program on a system to operate a controller. Test and run basic program operating a controller.			
<u>Johannesburg Dates</u>	02 Feb - 05 Feb 2026 16 Nov - 19 Nov 2026	13 Apr - 16 Apr 2026	22 Jun - 25 Jun 2026	07 Sep - 10 Sep 2026
<u>Durban Dates</u>	Available on Request			
<u>Kimberley Dates</u>	Available on Request			

Courses Available on request for groups of 6 or more students:

- * End of Life Training (safe disposal of air conditioning / refrigeration equipment)
- * Evaporative Cooling Sizing/System Selection/Design Aspects
- * Evaporative Cooling Installation/Commissioning
- * Refrigeration Pipework Installations
- * Rigging, Bearings & Fans Course
- * Drain Piping for HVAC&R
- * Duct Work Installation

Authorised Refrigeration Practitioner Course required by law for all Refrigeration Persons :



The Department of Labour published the "Pressure Equipment Regulations" in the Government gazette in July 2009 and they came into force on 1st October 2009. These form part of the Occupational Health and Safety Act Number 85 of 1993. Revision 1 with guide notes was published in 2015 and Revision 2 was published in November 2017.

The regulations.

The Department of Labour has Mandated SAQCC Gas with the responsibility of registering and maintaining a data base of "Authorised Persons" for handling and working with gases under pressure. SARACCA is a member association of SAQCC Gas with the responsibility to review and process applications from persons in the refrigeration and air conditioning industry.

The Regulations define an Authorised Person as one who is registered with SAQCC Gas as being competent within the scope of work for refrigeration. In the refrigeration and air conditioning Industry we have defined 14 categories of registration within the scope of refrigeration work

Clause 2(1) of the PER says,

Scope of Application: These Regulations shall apply to the design, manufacture, operation, repair, modification, maintenance, inspection, and testing of pressure equipment with a design pressure equal to or greater than 50kPa,.....

Course Name **First Time Registration - Authorised Refrigeration Practitioner License** (Safe Handling of Refrigerants) **Fluorinated, Flammable and CO₂ refrigerants**

Entry Requirements	Basic Literacy and Numeracy, minimum 12 months relevant industry experience or Technology 1 course.		Duration	5 days
Class Times	Monday - Friday 08h00 until 15h30		Cost	R 9 920,00 incl. vat
Excludes	SARACCA Reg. fee of R 2 530.00 incl. vat payable directly towards SARACCA For the digital registration via SARACCA - 2 colour id photos, certified copy of id, certified copy of ACRA Certificate and Trade Test Certificate (if applicable) should be attached to the application / emailed to SARACCA. Candidates who apply for registration will be registered on the SAQCCGas Database www.saqccgas.co.za . Some categories can register on the SAQCCGas Mobile Application for issuing COC's. Registration via SARACCA should be done within 12 months from completing the training. Should the 12 month period be exceeded you will be required to redo the full 5 day course.			
Objectives	Training and Assessment to comply with the legal requirement of the OHS Act. Pressure Equipment Regulation (Clause 17-18) July 2009 No 85 of 1993.			
Outcomes	This course, required by law enables persons to register as an authorised person in the relevant categories with SAQCCGas.			
Johannesburg Dates	05 Jan - 09 Jan 2026 23 Mar - 27 Mar 2026 22 Jun - 26 Jun 2026 28 Sep - 02 Oct 2026	19 Jan - 23 Jan 2026 20 Apr - 24 Apr 2026 13 Jul - 17 Jul 2026 19 Oct - 23 Oct 2026	02 Feb - 06 Feb 2026 04 May - 08 May 2026 11 Aug - 14 Aug 2026 09 Nov - 13 Nov 2026	23 Feb - 27 Feb 2026 25 May - 29 May 2026 31 Aug - 04 Sep 2026 30 Nov - 04 Dec 2026
Durban Dates	05 Jan - 09 Jan 2026 08 Jun - 12 Jun 2026 05 Oct - 09 Oct 2026	02 Feb - 06 Feb 2026 06 Jul - 10 Jul 2026 09 Nov - 13 Nov 2026	16 Mar - 20 Mar 2026 11 Aug - 14 Aug 2026	04 May - 08 May 2026 31 Aug - 04 Sep 2026
Kimberley Dates	19 Jan - 23 Jan 2026 31 Aug - 04 Sep 2026	16 Feb - 20 Feb 2026 05 Oct - 09 Oct 2026	04 May - 08 May 2026 26 Oct - 30 Oct 2026	29 Jun - 03 Jul 2026

Course Name **Renewal - Authorised Refrigeration Practitioner** (Safe Handling of Refrigerants) **Fluorinated, Flammable and CO₂ refrigerants**

Entry Requirements	Valid SAQCCGas Safe Handling License (Registration should not be expired for longer than 12 months).		Duration	2 days
Class Times	Wednesday - Thursday 08h00 until 15h30		Cost	R 3 970,00 incl. vat
Excludes	SARACCA Reg. fee of R 2 530.00 incl. vat payable directly towards SARACCA. For the digital registration as per initial registration via SARACCA.			
Objectives	Training and Assessment to comply with the legal requirement of the OHS Act. Pressure Equipment Regulation (Clause 17-18) July 2009 No 85 of 1993.			
Outcomes	This course, required by law enables persons to re-register as an authorised person in the relevant categories with SAQCCGas.			
Johannesburg Dates	07 Jan - 08 Jan 2026 25 Mar - 26 Mar 2026 24 Jun - 25 Jun 2026 30 Sep - 01 Oct 2026	21 Jan - 22 Jan 2026 22 Apr - 23 Apr 2026 15 Jul - 16 Jul 2026 21 Oct - 22 Oct 2026	04 Feb - 05 Feb 2026 06 May - 07 May 2026 12 Aug - 13 Aug 2026 11 Nov - 12 Nov 2026	25 Feb - 26 Feb 2026 27 May - 28 May 2026 02 Sep - 03 Sep 2026 02 Dec - 03 Dec 2026
Durban Dates	07 Jan - 08 Jan 2026 10 Jun - 11 Jun 2026 07 Oct - 08 Oct 2026	04 Feb - 05 Feb 2026 08 Jul - 09 Jul 2026 11 Nov - 12 Nov 2026	18 Mar - 19 Mar 2026 12 Aug - 13 Aug 2026	06 May - 07 May 2026 02 Sep - 03 Sep 2026
Kimberley Dates	21 Jan - 22 Jan 2026 02 Sep - 03 Sep 2026	18 Feb - 19 Feb 2026 07 Oct - 08 Oct 2026	06 May - 07 May 2026 28 Oct - 29 Oct 2026	01 Jul - 02 Jul 2026

Course Name **First Time Registration - Authorised Ammonia Practitioner Course** (Safe Handling of Ammonia License) **Ammonia CAT A**

Entry Requirements	This is for any persons working in or around an ammonia plant including cleaners, technical staff and plant operators as per legal requirement laid down in the OHS Act and pressure vessel regulations.		Duration	3 days
Class Times	Monday - Wednesday 08h00 until 15h30		Cost	R 5 960,00 incl. vat
Excludes	SARACCA Reg. fee of R 2 530.00 incl. vat payable directly towards SARACCA. For the digital registration via SARACCA - 2 colour id photos, certified copy of id, certified copy of ACRA Certificate and Trade Test Certificate (if applicable) should be attached to the application / emailed to SARACCA. Candidates who apply for registration will be registered on the SAQCCGas Database www.saqccgas.co.za. Registration via SARACCA should be done within 12 months from completing the training. Should the 12 month period be exceeded you will be required to redo the full 3 day course.			
Objectives	This course enables a successful candidate to register in terms of the OHS Act (No 85 of 1993) - Sections 43 and 44 and regulation R734 of July 2009 (Pressure Equipment Regulations) as applicable to Ammonia Refrigerant. This course, required by law enables persons to register as an authorised person in the relevant categories with SARACCA. The persons registering here are those who work as operators in plant rooms and in factories using process refrigeration but are not qualified by training in refrigeration. Persons applying for registration in this category require training in the hazards of ammonia refrigerant; Health and Safety and incident safety response requirements. <u>A plant operator may not sign a Certificate of Conformity.</u>			
Outcomes	On successful completion of this course the student will have an understanding and skills in relation to the safe handling and response of Ammonia Refrigerant including the pressure vessel regulations, The OHS act and relevant regulations, the Montreal protocol, SANS requirements, safety, first aid, emergency response to a leak.			
<u>Johannesburg Dates</u>	26 Jan - 28 Jan 2026 11 May - 13 May 2026 14 Sep - 16 Sep 2026 14 Dec - 15 Dec 2026	16 Feb - 18 Feb 2026 15 Jun - 17 Jun 2026 05 Oct - 07 Oct 2026	16 Mar - 18 Mar 2026 20 Jul - 22 Jul 2026 02 Nov - 04 Nov 2026	20 Apr - 22 Apr 2026 17 Aug - 19 Aug 2026 23 Nov - 25 Nov 2026
<u>Durban Dates</u>	26 Jan - 28 Jan 2026 05 Oct - 07 Oct 2026	07 Apr - 09 Apr 2026 16 Nov - 18 Nov 2026	15 Jun - 17 Jun 2026 14 Dec - 15 Dec 2026	17 Aug - 19 Aug 2026
<u>Kimberley Dates</u>	11 May - 13 May 2026	02 Nov - 04 Nov 2026		

Course Name **Renewal - Authorised Ammonia Practitioner** (Safe Handling of Ammonia License) **Ammonia CAT A**

Entry Requirements	Valid SAQCCGas Ammonia Safe Handling License (Registration should not be expired for longer that 12 months).		Duration	2 days
Class Times	Tuesday - Wednesday 08h00 until 15h30		Cost	R 3 970,00 incl. vat
Excludes	SARACCA Reg. fee of R 2 530.00 incl. vat payable directly towards SARACCA. For the digital registration as per initial registration via SARACCA.			
Objectives	This course enables a successful candidate to re-register in terms of the OHS Act (No 85 of 1993) - Sections 43 and 44 and regulation R734 of July 2009 (Pressure Equipment Regulations) as applicable to Ammonia Refrigerant.			
Outcomes	This course, required by law enables persons to re-register as an authorised person in the relevant categories with SAQCCGas.			
<u>Johannesburg Dates</u>	27 Jan - 28 Jan 2026 12 May - 13 May 2026 15 Sep - 16 Sep 2026 14 Dec - 15 Dec 2026	17 Feb - 18 Feb 2026 16 Jun - 17 Jun 2026 06 Oct - 07 Oct 2026	17 Mar - 18 Mar 2026 21 Jul - 22 Jul 2026 03 Nov - 04 Nov 2026	21 Apr - 22 Apr 2026 18 Aug - 19 Aug 2026 24 Nov - 25 Nov 2026
<u>Durban Dates</u>	27 Jan - 28 Jan 2026 06 Oct - 07 Oct 2026	08 Apr - 09 Apr 2026 17 Nov - 18 Nov 2026	16 Jun - 17 Jun 2026 14 Dec - 15 Dec 2026	18 Aug - 19 Aug 2026
<u>Kimberley Dates</u>	12 May - 13 May 2026	03 Nov - 04 Nov 2026		

Course Name **First Time Registration - Authorised Ammonia Practitioner Course** (Safe Handling of Ammonia License) **Ammonia CAT B**

Entry Requirements	Candidate should have a minimum of three months relevant refrigeration working experience ie: Exposure to refrigeration tools and instruments, evacuation, leak testing, refrigerant charging etc.		Duration	5 days
Class Times	Monday - Friday 08h00 until 15h30		Cost	R 9 920,00 incl. vat
Excludes	SARACCA Reg. fee of R 2 530.00 incl. vat payable directly towards SARACCA. For the digital registration via SARACCA - 2 colour id photos, certified copy of id, certified copy of ACRA Certificate and Trade Test Certificate (if applicable) should be attached to the application / emailed to SARACCA. Candidates who apply for registration will be registered on the SAQCCGas Database www.saqccgas.co.za. Candidates can register on the SAQCCGas Mobile Application for issuing COC's. Registration via SARACCA should be done within 12 months from completing the training. Should the 12 month period be exceeded you will be required to redo the full 5 day course.			
Objectives	This course enables a successful candidate to register in terms of the OHS Act (No 85 of 1993) - Sections 43 and 44 and regulation R734 of July 2009 (Pressure Equipment Regulations) as applicable to Ammonia Refrigerant. This course, required by law enables persons to register as an authorised person in the relevant categories with SARACCA. "The card holder is an Authorised Refrigeration Practitioner using Ammonia Refrigerant refrigerant" The candidates should be qualified artisans. The Practitioner can sign and issue a Certificate of Conformity for installation, maintenance and/or repairs.			
Outcomes	On successful completion of this course the student will have an understanding and skills in relation to the safe handling and usage of Ammonia Refrigerant including the pressure vessel regulations, The OHS act and relevant regulations, the Montreal protocol, SANS requirements, safety, first aid, emergency response to a leak and the basic service procedures.			
<u>Johannesburg Dates</u>	26 Jan - 30 Jan 2026 11 May - 15 May 2026 14 Sep - 18 Sep 2026 14 Dec - 18 Dec 2026	16 Feb - 20 Feb 2026 15 Jun - 19 Jun 2026 05 Oct - 09 Oct 2026	16 Mar - 20 Mar 2026 20 Jul - 24 Jul 2026 02 Nov - 06 Nov 2026	20 Apr - 24 Apr 2026 17 Aug - 21 Aug 2026 23 Nov - 27 Nov 2026
<u>Durban Dates</u>	26 Jan - 30 Jan 2026 05 Oct - 09 Oct 2026	07 Apr - 10 Apr 2026 16 Nov - 20 Nov 2026	15 Jun - 19 Jun 2026 14 Dec - 18 Dec 2026	17 Aug - 21 Aug 2026
<u>Kimberley Dates</u>	11 May - 15 May 2026	02 Nov - 06 Nov 2026		

Course Name **Renewal - Authorised Ammonia Practitioner** (Safe Handling of Ammonia License) **Ammonia CAT B**

Entry Requirements	Valid Saracca Ammonia Safe Handling License (License Card should not be expired for longer that 12 months)		Duration	2 days
Class Times	Thursday - Friday 08h00 until 15h30		Cost	R 3 970,00 incl. vat
Excludes	SARACCA Reg. fee of R 2 530.00 incl. vat payable directly towards SARACCA. For the digital registration as per initial registration via SARACCA.			
Objectives	This course enables a successful candidate to re-register in terms of the OHS Act (No 85 of 1993) - Sections 43 and 44 and regulation R734 of July 2009 (Pressure Equipment Regulations) as applicable to Ammonia Refrigerant.			
Outcomes	This course, required by law enables persons to re-register as an authorised person in the relevant categories with SAQCCGas.			
<u>Johannesburg Dates</u>	29 Jan - 30 Jan 2026 14 May - 15 May 2026 17 Sep - 18 Sep 2026 17 Dec - 18 Dec 2026	19 Feb - 20 Feb 2026 18 Jun - 19 Jun 2026 08 Oct - 09 Oct 2026	19 Mar - 20 Mar 2026 23 Jul - 24 Jul 2026 05 Nov - 06 Nov 2026	23 Apr - 24 Apr 2026 20 Aug - 21 Aug 2026 26 Nov - 27 Nov 2026
<u>Durban Dates</u>	29 Jan - 30 Jan 2026 08 Oct - 09 Oct 2026	09 Apr - 10 Apr 2026 19 Nov - 20 Nov 2026	18 Jun - 19 Jun 2026 17 Dec - 18 Dec 2026	20 Aug - 21 Aug 2026
<u>Kimberley Dates</u>	14 May - 15 May 2026	05 Nov - 06 Nov 2026		

Course Name **Certificate Of Conformance (COC)**

Entry Requirements	Valid SAQCCGas Safe Handling Registration				Duration	1 day
Class Times	08h00 until 15h30				Cost	R 8 270,00 incl. vat
Excludes	SARACCA Reg. fee of R 2 530.00 incl. vat payable directly towards SARACCA. For the digital registration via SARACCA - 2 colour id photos, certified copy of id, certified copy of ACRA Certificate and Trade Test Certificate should be attached to the application / emailed to SARACCA. Candidates who apply for registration will be registered on the SAQCCGas Database www.saqccgas.co.za . Candidates can register on the SAQCCGas Mobile Application for issuing COC's.					
Objectives	Training and Assessment to comply with the legal requirement of the OHS Act. Pressure Equipment Regulation (Clause 17-18) July 2009 No 85 of 1993.					
Outcomes	This course, required by law enables persons to register as an Inspector Category C providing all other requirements have been met as per SARACCA. Portfolio needs to be submitted within 90 days after successful completion of course at ACRA - or the candidate will have to redo the training.					
Example of Skills	The candidate will understand the Safety and Legal aspects with regards to the Pressure Vessel Regulation and be able to conduct inspections, completing all the relevant reports , documentation and issuing of a COC.					
<u>Johannesburg Dates</u>	06 Mar 2026	22 May 2026	24 Jul 2026	02 Oct 2026	04 Dec 2026	
<u>Durban Dates</u>	06 Feb 2026	29 May 2026	18 Sep 2026			
<u>Kimberley Dates</u>	05 Jun 2026					

Once you have been registered with SAQCCGas. Please go to <https://saqccgas.co.za/>, search by only adding your Surname or Company Name to verify your license number.

Once you have confirmed your license number, please download the SAQCCGas COC mobile Application on your phone and complete the registration process.

(Legacy) Apprenticeship - Refrigeration Mechanic (Industrial & Commercial)

The apprenticeship system is a well known technical training system, including practical and theoretical components offered in designated trades to achieve artisan status. We have formed partnerships with stakeholder and can offer full training of the knowledge component, the practical aspects.

Agreement Duration with Merseta 3 years

Apprentices registered on the legacy qualification will continue until completion (2027).

Pre-Trade Test Revision Refrigeration Mechanic (Industrial & Commercial)

(ARPL - Artisan Recognition of Prior Learning)

Entry Requirements	Approval from Seta - Serial Number	Duration	1 - 10 days
Class Times	Monday - Friday 08h00 until 15h30	Cost	R 1985,00 incl. vat per day depending on duration
Objectives	Revision for the candidate before trade testing. Applications for trade testing available at the Academy.		
Available Dates	Dates issued after receipt of Trade Test Assessment Dates from Seta The dates will be scheduled 10 days / 5 days prior to the Trade Test Assessment date. The duration of Revision is subject to your knowledge and experience.		

Trade Test - Refrigeration Mechanic (Industrial & Commercial)

(ARPL - Artisan Recognition of Prior Learning)

Entry Requirements	Approval from Seta - Serial Number	Duration	2 days
Class Times	08h00 until 15h30	Cost	R 6810,00 incl. vat per 2 days assessment
Objectives	The Academy is a DHET / QCTO / NAMB / Seta Accredited Decentralised Trade Test Centre (National Certification). Applications for trade testing available at the Academy.		
Available Dates	Trade Test dates are issued by a SETA after submission of your Trade Test Application at your nearest SETA office.		

Occupational Qualifications (Apprenticeships)

To be made available in 2026

National Occupation Qualification	National Certificate Refrigeration	
	Context 1: Fluorinated and Flammable Refrigerants	3 years
	Context 2: Carbon Dioxide Refrigerant	3 years
	Context 3: Ammonia Refrigerant	3 years
National Occupation Qualification	National Certificate Air Conditioning and Refrigeration	3 years

Occupational Part Qualifications (Certificate)

To be made available in 2026

Part Qualification	Refrigeration maintenance and repair workman	2 years
Part Qualification	Mobile Refrigeration Fitter	18 Months
Part Qualification	Air Conditioning and Refrigeration Certificate of Conformity verifier	18 Months
Part Qualification	HVAC Compliance verifier	18 Months
Part Qualification	Refrigeration Fitter	18 Months
Part Qualification	HVAC Control Fitter	18 Months
Part Qualification	Refrigeration Pipework Installer	12 Months
Part Qualification	Unitary air conditioning Installer	12 Months
Part Qualification	Domestic and light Commercial refrigeration serviceman	12 Months

CLASS TIMES AND INFORMATION

Mondays - Thursday:

Training Start	08:00 am	Training Ends	15:30 pm
Lunch Time	12:00 pm	Lunchtime Ends	12:45 pm
Study Time Start	15:30 pm	Study Time Ends	16:00 pm

Fridays:

Training Start	08:00 am	Training Ends	13:00 pm
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Tea Breaks

Tea & Coffee is included and will be served at the following times

Morning - 7:30am to 8:00am

Tea Break - 10:00am to 10:15am

Lunch Time - 12:00pm to 12:45pm

(Cold drinks and snacks are available at Tuck Shop)

What to Bring

SAFETY SHOES - no students will be allowed in the workshop without safety shoes.

Stationary - pen, pencil, ruler, eraser, highlighters, note pad and **calculator** - NO CELLPHONES ALLOWED DURING CLASS

ID / copy of ID / Proof of payment & Suitable clothing for practical training.

Bookings

See attached 2026 Enrolment form - please complete the form and return to the relevant branch:

* **Johannesburg Enrolments** via email to info@acra.co.za

* **Durban Enrolments** via email to acrazn@acra.co.za

* **Kimberley Enrolments** via email to acranc@acra.co.za

Please send a copy of ID and proof of 50% Deposit paid.

ACCREDITATION

The Academy carries FULL ACCREDITATION for the training of apprenticeships, learnerships and training courses in air conditioning and refrigeration levels 2 through to 4, with QCTO (Quality Council for Trades & Occupations), NAMB (National Artisan Moderation Body) and DHET (Department of Higher Education and Training) Decentralised Assessment Centre status for Trade Testing and licensing for Safe Handling of Refrigerants for the South African Refrigeration and Air Conditioning Contractors Association (SARACCA). All courses are therefore recognised and are nationally and internationally certificated and/or licensed or carry a Diploma.

ACRA's TRAINING PARTNERS

It is ACRA's policy to involve industry role players as training partners ultimately this results in ACRA's training being cutting edge and in line with the latest trends in industry. Our partners introduce the latest technologies and equipment to the training centre. Their assistance with equipment keeps our training costs manageable and our courseware up to date. Our current training partners include:

Africa Eckerle Condensate Pumps	A-Gas (South Africa) (Pty) Ltd	Belimo
Copper Development Association Africa	Direct Digital Control Services / Innotech	Evapco
Full Gauge Controls	GEA Africa	IWC - Innovative Water Cooling (Pty) Ltd
O3 Chemicals	Quickpro Pipes	Samsung
SARACCA /SAQCC Gas	Shamus Rennie	Seeley International / Breezair Chint
Tecsa Reco	Testo South Africa (Pty) Ltd	Umicore Marketing Services Africa (Pty) Ltd
Victaulic	Whirlpool	

INDUSTRY INVOLVEMENT

ACRA and ACRA's staff are heavily invested in the industry at various levels. Mr Grant Laidlaw is a Past President for SAIRAC (South African Institute for Refrigeration and Air Conditioning) and currently sits on the National Executive Committee in the training and Treasurers Portfolios. Mr Grant Laidlaw has been appointed to represent industry with NAMB as an expert practitioner for the development of occupational qualifications and trade testing. Mr. Laidlaw represents the Industry and the Department of Higher Education as subject matters expert for the curriculum and National Assessment Development. Mr. Laidlaw has published many articles in trade magazines and is a permanent contributor for the RACA Magazine and serves on the Advisory Committee. Furthermore Mr. Laidlaw is a registered DOL/SAQCC Gas Inspector. Mr Laidlaw is involved with the department of the Environment, Forestry and Fisheries working committee fore the phase out and phase down of ozone depleting and global warming substances.

Grant Laidlaw was appointed by SARACCA to develop and maintain the Safe Handling of Refrigerants course, training manual, assessments and all associated documents and to develop the necessary processes for all providers on a national level.

Gordon Banks is the President and Chairman on the Committee of SAIRAC Kwa-Zulu Natal.

Anria Pieterse, Annelize Grobbelaar, Alicia Leary, Magda Human, Claudia Lee, Leanne Tomkinson are all registered SDF's.

THE ACRA TEAM

Head Office:

Grant Laidlaw	Managing Director
Anria Pieterse	Administration Manager / Senior Skills Development Facilitator
Armando Smal	Accountant / Auditor
Leanne Tomkinson	Accounts / Project Administration
Lourensia Welthagen	Accounts Clerk

Gauteng - Johannesburg:

Anria Pieterse	Administration Manager / Senior Skills Development Facilitator
James Laidlaw	Technical Manager / Facilitator / Assessor / Moderator
Freddie Upton	Facilitator / Assessor / Moderator / Trade Assessment Practitioner
Manny Grota	Facilitator / Assessor / Moderator
Johanna Mahori	Facilitator / Assessor / Moderator
Ryan Laidlaw	Facilitator
Gareth Channer	Facilitator
Annelize Grobbelaar	Administration / Marketing / Skills Development Facilitator
Alicia Leary	Reception / Social Media / Marketing / Skills Development Facilitator
Magda Human	Course Bookings / Trade Test Bookings / Queries / Skills Development Facilitator

Kwa-Zulu Natal - Durban:

Gordon Banks	Branch Manager / Facilitator / Assessor / Moderator / Trade Assessment Practitioner
Rodney Adams	Facilitator / Assessor
Donald Fraser	Facilitator / Assessor
Claudia Lee	Branch Administrator / Skills Development Facilitator

Northern Cape - Kimberley:

Laurie Jacobs	Technical Manager / Facilitator / Assessor
Andre Mynhardt	Facilitator / Assessor
Stewart Laidlaw	Facilitator / Assessor / Moderator / Trade Assessment Practitioner
Ophilia Richter	Branch Administrator

SOCIAL MEDIA

Find us on the following social media platforms-



RACA JOURNAL
Refrigeration & Air Conditioning Africa

HEVAC&R JOURNAL
2025

Grant Laidlaw publishes monthly articles in the RACA - Refrigeration and Air Conditioning Africa Journal (magazine), visit www.refrigerationandaircon.co.za to read the articles published.

RACA JOURNAL
Refrigeration & Air Conditioning Africa

WELCOME TO THE SOLUTIONS PAGE
By Grant Laidlaw

Many people ask for assistance in understanding theoretical and practical aspects of this industry. I will endeavour to enlighten. We are going back to basics as I have questions coming in that indicate that the basic understanding necessary to work in industry is not in place.

WELCOME TO THE SOLUTIONS PAGE
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Many people ask for assistance in understanding theoretical and practical aspects of this industry. I will endeavour to enlighten. We are going back to basics as I have questions coming in that indicate that the basic understanding necessary to work in industry is not in place.

South African Institute for Refrigeration and Air Conditioning

ACRA strives to be involved with institutions like SAIRAC to advance and protect the arts and sciences of refrigeration, air conditioning and the allied arts and sciences. Mr Grant Laidlaw is a Past President for SAIRAC (South African Institute for Refrigeration and Air Conditioning) and currently sits on the National Executive Committee in the training and Treasurers Portfolios.

Visit the SAIRAC website for events information and information regarding becoming a member of the South African Institute for Refrigeration and Air Conditioning - www.sairac.co.za

2026 GAUTENG - JOHANNESBURG COURSE DATES SUMMARY

Johannesburg Schedule - For bookings please call Magda Human magda@acra.co.za or info@acra.co.za
Tel: (011) 393 1642, (011) 609 1118, 082 936 4183

TECHNOLOGY 1	ELECTRICAL ONE	TECHNOLOGY 2	New AUTHORISED REFRIGERATION PRACTITIONER LICENSE	Renewal AUTHORISED REFRIGERATION PRACTITIONER
05 Jan - 16 Jan 2026 02 Feb - 13 Feb 2026 02 Mar - 13 Mar 2026 30 Mar - 10 Apr 2026 04 May - 15 May 2026 01 Jun - 12 Jun 2026 29 Jun - 10 Jul 2026 27 Jul - 07 Aug 2026 24 Aug - 04 Sep 2026 28 Sep - 09 Oct 2026 02 Nov - 13 Nov 2026 30 Nov - 11 Dec 2026	19 Jan - 30 Jan 2026 16 Feb - 27 Feb 2026 16 Mar - 27 Mar 2026 13 Apr - 24 Apr 2026 18 May - 29 May 2026 15 Jun - 26 Jun 2026 11 Aug - 21 Aug 2026 07 Sep - 18 Sep 2026 12 Oct - 23 Oct 2026 16 Nov - 27 Nov 2026	05 Jan - 16 Jan 2026 16 Feb - 27 Feb 2026 23 Mar - 02 Apr 2026 18 May - 29 May 2026 15 Jun - 26 Jun 2026 01 Aug - 14 Aug 2026 05 Oct - 16 Oct 2026 16 Nov - 27 Nov 2026	05 Jan - 09 Jan 2026 19 Jan - 23 Jan 2026 02 Feb - 06 Feb 2026 23 Feb - 27 Feb 2026 23 Mar - 27 Mar 2026 20 Apr - 24 Apr 2026 04 May - 08 May 2026 25 May - 29 May 2026 22 Jun - 26 Jun 2026 13 Jul - 17 Jul 2026 11 Aug - 14 Aug 2026 31 Aug - 04 Sep 2026 28 Sep - 02 Oct 2026 19 Oct - 23 Oct 2026 09 Nov - 13 Nov 2026 30 Nov - 04 Dec 2026	07 Jan - 08 Jan 2026 21 Jan - 22 Jan 2026 04 Feb - 05 Feb 2026 25 Feb - 26 Feb 2026 25 Mar - 26 Mar 2026 22 Apr - 23 Apr 2026 06 May - 07 May 2026 27 May - 28 May 2026 24 Jun - 25 Jun 2026 15 Jul - 16 Jul 2026 12 Aug - 13 Aug 2026 02 Sep - 03 Sep 2026 30 Sep - 01 Oct 2026 21 Oct - 22 Oct 2026 11 Nov - 12 Nov 2026 02 Dec - 03 Dec 2026
ELECTRICAL TWO	TECHNOLOGY 3	ELECTRICAL THREE	TECHNOLOGY 4	VEHICULAR AIR CONDITIONING
19 Jan - 30 Jan 2026 02 Mar - 13 Mar 2026 07 Apr - 17 Apr 2026 01 Jun - 12 Jun 2026 29 Jun - 10 Jul 2026 24 Aug - 04 Sep 2026 21 Sep - 02 Oct 2026 19 Oct - 30 Oct 2026 30 Nov - 11 Dec 2026	16 Mar - 27 Mar 2026 04 May - 15 May 2026 13 Jul - 24 Jul 2026 07 Sep - 18 Sep 2026 02 Nov - 13 Nov 2026	02 Feb - 13 Feb 2026 30 Mar - 10 Apr 2026 18 May - 29 May 2026 27 Jul - 07 Aug 2026 07 Sep - 18 Sep 2026 16 Nov - 27 Nov 2026	16 Feb - 27 Feb 2026 13 Apr - 24 Apr 2026 01 Jun - 12 Jun 2026 17 Aug - 28 Aug 2026 05 Oct - 16 Oct 2026 07 Dec - 18 Dec 2026	05 Jan - 16 Jan 2026 20 Mar - 30 Apr 2026 18 May - 29 May 2026 03 Aug - 14 Aug 2026 05 Oct - 16 Oct 2026
BMS Control Systems	INSTALL, FAULT FIND, MAINTAIN & REPAIR A/C UNITS	COC Certificate of Conformance	Ammanita - Cat A	Ammanita - Cat B
02 Feb - 05 Feb 2026 12 Apr - 16 Apr 2026 22 Jun - 25 Jun 2026 07 Sep - 10 Sep 2026 16 Nov - 19 Nov 2026	05 Jan - 16 Jan 2026 02 Feb - 13 Feb 2026 09 Mar - 20 Mar 2026 04 May - 15 May 2026 01 Jun - 12 Jun 2026 30 Jul - 31 Jul 2026 24 Aug - 04 Sep 2026 21 Sep - 02 Oct 2026 24 Oct - 04 Nov 2026 07 Dec - 18 Dec 2026	06 Mar 2026 22 May 2026 24 Jul 2026 02 Oct 2026 04 Dec 2026	24 Jan - 28 Jan 2026 16 Feb - 18 Feb 2026 14 Mar - 18 Mar 2026 20 Apr - 23 Apr 2026 11 May - 15 May 2026 15 Jun - 17 Jun 2026 20 Jul - 22 Jul 2026 17 Aug - 19 Aug 2026 14 Sep - 16 Sep 2026 05 Oct - 07 Oct 2026 02 Nov - 04 Nov 2026 23 Nov - 25 Nov 2026 14 Dec - 16 Dec 2026	24 Jan - 26 Jan 2026 16 Feb - 20 Feb 2026 16 Mar - 20 Mar 2026 20 Apr - 24 Apr 2026 11 May - 15 May 2026 15 Jun - 19 Jun 2026 20 Jul - 24 Jul 2026 17 Aug - 21 Aug 2026 14 Sep - 18 Sep 2026 05 Oct - 09 Oct 2026 02 Nov - 06 Nov 2026 23 Nov - 27 Nov 2026 14 Dec - 18 Dec 2026

2026 KWA-ZULU NATAL - DURBAN COURSE DATES SUMMARY

Kwa-Zulu Natal Schedule - For bookings please call Claudia Lee acrakzn@acra.co.za or Gordon Banks gordon@acra.co.za
Tel: (031) 202 3103, 064 908 2677

TECHNOLOGY 1	ELECTRICAL ONE	TECHNOLOGY 2	New AUTHORISED REFRIGERATION PRACTITIONER LICENSE	Renewal AUTHORISED REFRIGERATION PRACTITIONER
05 Jan - 15 Jan 2026 02 Mar - 13 Mar 2026 04 May - 15 May 2026 22 Jun - 03 Jul 2026 24 Aug - 04 Sep 2026 12 Oct - 23 Oct 2026 09 Nov - 20 Nov 2026 07 Dec - 18 Dec 2026	19 Jan - 30 Jan 2026 23 Mar - 02 Apr 2026 18 May - 29 May 2026 13 Jul - 24 Jul 2026 07 Sep - 18 Sep 2026 25 Oct - 05 Nov 2026	12 Jan - 23 Jan 2026 16 Feb - 27 Feb 2026 04 May - 15 May 2026 15 Jun - 26 Jun 2026 11 Aug - 21 Aug 2026 14 Sep - 25 Sep 2026 12 Oct - 23 Oct 2026 30 Nov - 11 Dec 2026	05 Jan - 09 Jan 2026 02 Feb - 06 Feb 2026 18 Mar - 20 Mar 2026 04 May - 08 May 2026 08 Jun - 12 Jun 2026 05 Jul - 10 Jul 2026 11 Aug - 14 Aug 2026 28 Aug - 04 Sep 2026 05 Oct - 09 Oct 2026 09 Nov - 13 Nov 2026	07 Jan - 08 Jan 2026 05 Feb - 06 Feb 2026 18 Mar - 19 Mar 2026 05 May - 07 May 2026 15 Jun - 16 Jun 2026 03 Jul - 07 Jul 2026 12 Aug - 15 Aug 2026 02 Sep - 06 Sep 2026 09 Oct - 09 Oct 2026 11 Nov - 12 Nov 2026
ELECTRICAL TWO	TECHNOLOGY 3	ELECTRICAL THREE	TECHNOLOGY 4	VEHICULAR AIR CONDITIONING
02 Mar - 13 Mar 2026 29 Jun - 10 Jul 2026 24 Oct - 05 Nov 2026	16 Mar - 27 Mar 2026 15 Jun - 26 Jun 2026 27 Jul - 07 Aug 2026 09 Nov - 20 Nov 2026	30 Mar - 10 Apr 2026 13 Jul - 24 Jul 2026 23 Nov - 04 Dec 2026	13 Apr - 24 Apr 2026 29 Jun - 10 Jul 2026 17 Aug - 28 Aug 2026 07 Dec - 18 Dec 2026	05 Jan - 16 Jan 2026 30 Mar - 10 Apr 2026 18 May - 29 May 2026 03 Aug - 14 Aug 2026 05 Oct - 16 Oct 2026
Welding, Brazing & Capping	INSTALL, FAULT FIND, MAINTAIN & REPAIR A/C UNITS	COC Certificate of Conformance	Ammanita - Cat A	Ammanita - Cat B
09 Feb - 20 Feb 2026 01 Jan - 12 Jan 2026 21 Sep - 02 Oct 2026	02 Feb - 13 Feb 2026 13 Apr - 24 Apr 2026 01 Jun - 12 Jun 2026 27 Jul - 07 Aug 2026 21 Sep - 02 Oct 2026 23 Nov - 04 Dec 2026	04 Feb 2026 29 May 2026 18 Sep 2026	28 Jan - 28 Jan 2026 09 Apr - 09 Apr 2026 15 Jun - 17 Jun 2026 17 Aug - 19 Aug 2026 05 Oct - 07 Oct 2026 18 Nov - 18 Nov 2026 14 Dec - 15 Dec 2026	28 Jan - 30 Jan 2026 09 Apr - 10 Apr 2026 15 Jun - 17 Jun 2026 17 Aug - 21 Aug 2026 05 Oct - 08 Oct 2026 18 Nov - 20 Nov 2026 14 Dec - 16 Dec 2026

2026 NORTHERN CAPE - KIMBERLEY COURSE DATES SUMMARY

Kimberley Schedule - For bookings please call Ophelia Richter acranc@acra.co.za or Laurie Jacobs laurie@acra.co.za
Tel: (053) 833 1903, 083 261 5728

TECHNOLOGY 1	ELECTRICAL ONE	TECHNOLOGY 2	New AUTHORISED REFRIGERATION PRACTITIONER LICENSE	Renewal AUTHORISED REFRIGERATION PRACTITIONER
05 Jan - 16 Jan 2026 13 Apr - 24 Apr 2026 30 Jul - 31 Jul 2026 21 Sep - 02 Oct 2026 26 Oct - 06 Nov 2026 07 Dec - 18 Dec 2026	03 Feb - 13 Feb 2026 02 Mar - 13 Mar 2026 18 May - 29 May 2026 03 Aug - 14 Aug 2026 13 Oct - 23 Oct 2026 23 Nov - 04 Dec 2026	16 Mar - 27 Mar 2026 15 Jun - 26 Jun 2026 07 Sep - 18 Sep 2026 23 Nov - 04 Dec 2026	19 Jan - 30 Jan 2026 16 Feb - 28 Feb 2026 04 May - 08 May 2026 29 Jun - 03 Jul 2026 31 Aug - 06 Sep 2026 05 Oct - 09 Oct 2026 26 Oct - 30 Oct 2026	31 Jan - 30 Jan 2026 18 Feb - 19 Feb 2026 04 May - 07 May 2026 01 Jul - 02 Jul 2026 02 Sep - 03 Sep 2026 07 Oct - 08 Oct 2026 28 Oct - 29 Oct 2026
ELECTRICAL TWO	TECHNOLOGY 3	ELECTRICAL THREE	TECHNOLOGY 4	VEHICULAR AIR CONDITIONING
04 May - 15 May 2026 06 Jul - 17 Jul 2026 07 Dec - 18 Dec 2026	18 May - 29 May 2026	08 Jun - 19 Jun 2026	Available on Request	20 Mar - 18 Apr 2026
Welding, Brazing & Cutting	INSTALL, FAULT FIND, REPAIR & REPAIR A/C UNITS	CCC Certificate of Conformance	Ammonia - CatA	Ammonia - CatB
26 Jan - 06 Feb 2026 09 Nov - 20 Nov 2026	19 Jan - 29 Jan 2026 14 Feb - 27 Feb 2026 01 Jun - 12 Jun 2026 17 Aug - 28 Aug 2026 09 Nov - 20 Nov 2026	06 Jun 2026	11 May - 12 May 2026 02 Nov - 04 Nov 2026	11 May - 12 May 2026 02 Nov - 04 Nov 2026

Please complete the attached Enrolment Form to enrol on our courses.

