



# DAIKIN

## TRAINING ACADEMY



**TRAINING  
CATALOGUE**

# DAIKIN AUSTRALIA

Founded in 1969, Daikin Australia has been providing air conditioned comfort for homes, commercial developments and community projects across Australia for over 50 years.

## MARKET LEADER

Daikin Australia is recognised as an expert in air conditioning. As specialists, air conditioning is all we do. As one of Australia's most trusted names in air conditioning, Daikin can be found in homes, offices, hotels and shops across Australia and around the world.

## QUALITY AFTER-SALES SUPPORT

As part of our commitment to ongoing service and quality, Daikin provides pre-sales and after sales support and advice to all our customers nationwide. Daikin has service centres based in all regional offices nationwide to assure satisfaction for our customers.

## AUSTRALIAN MADE PRODUCTS

Daikin has established world-class production facilities right here in Australia at our state-of-the-art manufacturing facility in Sydney that produces ducted indoor units and a range of commercial products.



# TRAINING ACADEMY

## TRAINING FACILITY

Daikin Australia is proud to present a range of training courses especially designed for air conditioning technicians. Our courses cover both domestic and commercial products and will reinforce 'industry best-practice' with regards to installation and servicing of Daikin products. Courses are aimed to help technicians improve their competence and daily performance.

Our qualified trainers have extensive HVAC industry and technical support experience. They all share a mutual passion for the industry and work tirelessly to help improve trade practices from apprentices to tradesmen.

Courses offered:

- Room Air Installation and Service
- SkyAir Installation and Service
- VRV Service and Commissioning
- Product Overview: VRV, VRV Package Unit, Altherma, Bluetooth D-Checker and Inverter Analyser

## LOCATIONS

Sydney, Melbourne, Brisbane, Adelaide, Perth  
Newcastle, Darwin

## WHY INVEST IN TRAINING?

Daikin is committed to the development of technical capability through the Daikin Training Academy. By investing in training, technicians will gain product specific information necessary to establish a high level of proficiency and increase technician competence and confidence when servicing systems and controls by addressing a variety of topics related to HVAC.



# ROOM AIR (RA) COURSES

## ROOM AIR INSTALLATION



### OVERVIEW

The course outlines installation best practice. Using the Daikin installation manual and discussing on-site install challenges, pipe processing and commissioning practices of RA installation techniques.



### THE COURSE COVERS

- Pipe processing skills
- Left- and right-hand side piping
- Flaring procedure
- Additional refrigerant calculations
- Installation of a split system
- Test run and data measurement



### WHO IS IT FOR?

4th year apprentices  
1st year technicians  
Any technician wanting to upskill installation skills



### COURSE DURATION

1 day  
2 days



### TIME

8.00am - 4.00pm



### LOCATION

Sydney

## ROOM AIR SERVICE



### OVERVIEW

This course focused on refrigeration principles and its effects on a system through proper data measurements and diagnosis.



### THE COURSE COVERS

- Basic knowledge of room air conditioning
- Installation
- Operation mechanics
- Knowledge of control (inputs, outputs, inverter, wiring diagrams)
- Operating data measurements
- Component replacement
- Protection control
- Abnormal operation
- Malfunction diagnosis (fault codes, troubleshooting, field settings)



### WHO IS IT FOR?

Technicians who predominately work on room air systems.



### COURSE DURATION

1 day



### TIME

8.00am - 4.00pm



### LOCATION

Sydney, Brisbane,  
Melbourne, Adelaide,  
Perth, Darwin

# SKY AIR (SA) COURSES

## SKYAIR INSTALLATION



### OVERVIEW

The course is an in-depth run through of SkyAir and light commercial installations, with industry best practices in mind.



### THE COURSE COVERS

- Safe work practices and workplace safety
- Process of installation
- Daikin installation, engineering and service manuals
- Reading mechanical drawings
- Practical exercises of unit locations (marking and installing)
- Pipe processing revision
- Flare procedures
- Fixing selection
- Installation of ducted systems
- Additional refrigerant calculations
- Commissioning and de-commissioning techniques



### WHO IS IT FOR?

Technicians who want to take the next step in their installation practices.



### COURSE DURATION

2 days



### TIME

8.00am - 4.00pm



### LOCATION

Sydney

## SKYAIR SERVICE



### OVERVIEW

This course takes technicians through the skills needed to confidently service, diagnose and interrogate SkyAir systems.



### THE COURSE COVERS

- Refrigeration principles
- Knowledge of SkyAir
- Points of Installation
- Service components
- SkyAir control systems (functions, thermostat, indoor and outdoor controls)
- Overview of controllers, field settings and settings via outdoor PCB.
- Component replacement
- Protection control
- Abnormal operation
- Malfunction diagnosis (fault codes, troubleshooting, field settings)
- Emergency operation



### WHO IS IT FOR?

Technicians who handle SA Service and controls, specifically around abnormal operating conditions



### COURSE DURATION

1 day



### TIME

8.00am - 4.00pm



### LOCATION

Sydney, Brisbane,  
Melbourne, Adelaide,  
Perth, Darwin

# VRV COURSES

## VRV SERVICE INTRODUCTION



### OVERVIEW

This course is intended to provide participants with the necessary knowledge required to understand detailed operation of Daikin VRV technology, familiarise technicians with components, controllers, wiring and equip them to solve VRV challenges on site.



### THE COURSE COVERS

- Overview of VRV product and system
- Power supply wiring
- Remote, DIII net, and precautions for wiring
- Overview of central control systems and remote controllers
- Outdoor PCB settings and monitor mode
- Controller and field settings, settings through monitor mode
- Daikin BACnet
- Concept of unit, groups and zones
- Basics of VRV control
- Refrigerant piping diagrams



### WHO IS IT FOR?

Service Technicians  
Commercial Contractors



### COURSE DURATION

1 day



### TIME

8.00am - 4.00pm



### LOCATION

Sydney, Brisbane,  
Melbourne, Adelaide,  
Perth, Darwin

## VRV SERVICE BASIC



### OVERVIEW

This course is designed for technicians who have a basic understanding of the VRV product. It will introduce technicians on how to start to look at interrogating VRV systems and get them comfortable with testing and fault finding a VRV system. It will also give an understanding of refrigerant flows through a VRV system.



### THE COURSE COVERS

- Refrigerant flow – modes of operation
- Knowledge of malfunction diagnosis
- Outdoor monitor mode
- Operating data measurements
- Indoor field settings
- Outdoor setting mode 2
- Practical; DC fan motors, pressure transducers, EEV, thermistors, inverter boards
- Practical and theory assessments and final level check of skills



### WHO IS IT FOR?

Service Technicians  
Commercial Contractors



### COURSE DURATION

2 days



### TIME

8.00am - 4.00pm



### LOCATION

Sydney, Brisbane, Perth,  
Melbourne

## VRV SERVICE ADVANCED

### OVERVIEW

The course is designed for senior technicians who handle VRV troubleshooting and analysis. It is recommended for technicians with knowledge in Microsoft Excel. This course offers high standards of digital diagnosis in modern HVAC, using data collected on real world sites and gives emphasis to critical thinking during the analysis process.

### THE COURSE COVERS

- Overview of D-Checker and connection
- Recording and transfer of operating data to PC
- Analysing raw excel data: applying filters, panes, on/off values, line graphs
- Case study analysis on actual VRV systems
- Practice and review diagnosis



### WHO IS IT FOR?

Service Technicians  
Commercial Contractors



### COURSE DURATION

1 days



### TIME

8.00am - 4.00pm



### LOCATION

Sydney, Brisbane,  
Melbourne, Perth

#### Notes:

- To be eligible to attend this course, proof of successful completion of VRV Service Basic is required.
- A laptop with Windows OS and MS Excel 2002 or latest is required.

## VRV INSTALLATION & COMMISSIONING

### OVERVIEW

This course will cover factory recommended commissioning procedures and best practices to ensure a proper VRV system operation.

### THE COURSE COVERS

- VRV Express and Nomenclature
- Outdoor unit installation – clearances, servicing and foundations
- Indoor unit installation – drain piping work
- 3 basic principles of piping work
- Nitrogen purging
- Brazing works and residual oil precautions
- Refrigerant pipes flushing
- Piping – refnet system, branch selector units and piping guides
- Additional refrigerant charge, heat pump and heat recovery
- Electrical works
- Field settings – indoor and outdoor
- Commissioning – initialisation, test operation, checks, fault codes and non operation



### WHO IS IT FOR?

Installers and contractors who are competent and licensed in light to heavy commercial installation.



### COURSE DURATION

1 day



### TIME

8.00am - 4.00pm



### LOCATION

Sydney, Brisbane,  
Melbourne, Adelaide,  
Perth, Darwin

# VRV COURSES

## VRV PACKAGE UNIT



### OVERVIEW

This course is for technicians who commission and service the product. It will also help in shorten diagnosis time on site with correct work procedures to identify components quickly.



### THE COURSE COVERS

- Overview; structure and build
- Specifications
- Component locations
- PLC commissioning and settings
- Fan controls
- Damper operations



### WHO IS IT FOR?

Service Technicians  
Commercial Contractors



### COURSE DURATION

Half day



### TIME

8.00am - 12.00pm



### LOCATION

Sydney, Brisbane,  
Melbourne, Adelaide,  
Perth, Darwin

# ALTHERMA



### OVERVIEW

This 2-day course covers in depth industry standards to domestic hot water and under floor heating applications. It is an introduction course to a new form of heat transfer. The schedule is flexible to suit the needs of attending contractors. Please contact us for more information.



### THE COURSE COVERS

- Concept of Daikin Altherma
- Sizing and selection tools
- Unit layout schematics
- Hydraulic connections
- Water quality and treatment
- General wiring rules
- Water flow rates and pump requirements
- Controller; basics, settings
- Commissioning overview
- Technician field settings and end user settings
- Service and maintenance; cleaning, electrical, hydraulic and air intake.



### WHO IS IT FOR?

Service Technicians  
Commercial Contractors



### COURSE DURATION

1 day  
2 days



### TIME

8.00am - 4.00pm



### LOCATION

Sydney, Melbourne,  
Perth, Adelaide

# WEB BASED TRAINING

Web Based Training (WBT) is an online portal with over 100 different courses.



## OVERVIEW

WBT allows anyone working in the HVAC industry to learn at a self-paced rate. Daikin offers online courses from basic air conditioning, customer service to fault code test procedures.



## THE COURSE COVERS

- Introduction to air conditioning
- Principles of refrigeration
- Standard operating states
- Air cooled and water-cooled systems
- Primary components
- Psychrometric charts
- P-h charts
- Coefficient of performance
- Basic works
- Test run procedures
- Central controllers

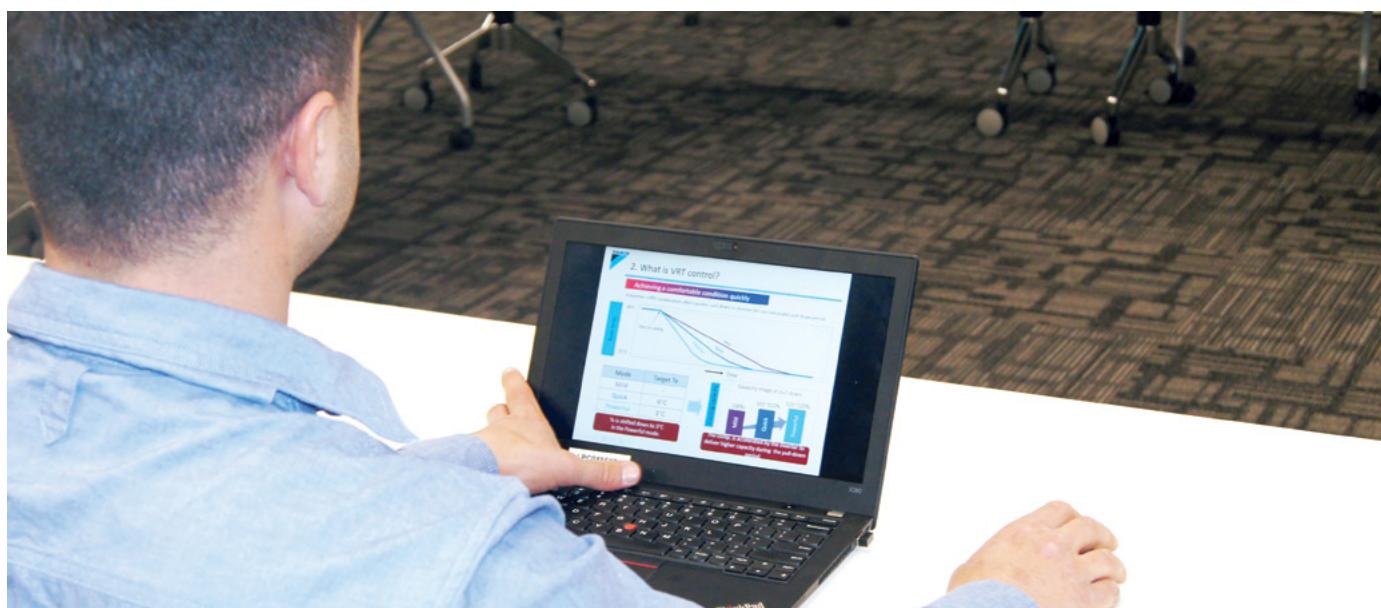


## WHO IS IT FOR?

Office administration  
Apprentice  
Technicians  
Management  
employees

- Troubleshooting; fault codes, inspection modes, malfunction codes A3, A0, E3, C4, U4, L5, U1 and more
- Installation
- Product knowledge
- Refrigerants
- Customer satisfaction
- Danger prediction training
- Altherma

Note: For training requirements outside the nominated subjects, please contact the training department at [TrainingAcademy@daikin.com.au](mailto:TrainingAcademy@daikin.com.au)



# REGISTRATION & ENROLMENT

To enquire about courses being held, locations and availability please contact Daikin Australia at [TrainingAcademy@daikin.com.au](mailto:TrainingAcademy@daikin.com.au) or by phone on 1300 362 438.

All courses are designed for trade qualified technicians, and therefore are not suitable for apprentices below the 4th year level. Apprentices are invited to show interest provided they are accompanied by a qualified technician from the same company. Daikin Australia requires proof of a full unrestricted ARC license before attendance.

Due to high demand for Daikin Training we reserve the right to limit or reschedule bookings to accommodate a 'fair-go' for all. All enrolments are on a first in first served basis.

Certificate of Attendance at the training can be issued, please speak to Daikin Training Academy.

All courses are free of charge to Daikin account holders.

Full day courses come with morning tea and lunch provided.



The greater Daikin Technical team have a voice and face to face reach of over 50,000 customers annually. We use this platform to promote e-friendly ways to conduct support and training. The greater Daikin Technical team will do their overall best to contribute to environmental protection and sustainability by not printing any material, therefore finding new and better ways to do normal business. The Daikin Technical team are passionate about environmental protection and sustainability.

# DAIKIN TECHNICAL TRAINING

## COURSE ENROLMENT FORM

### COMPANY DETAILS

COMPANY NAME

POSTAL ADDRESS

TOWN / SUBURB

STATE

POST CODE

CONTACT PERSON

E-MAIL

MOBILE PHONE

### PARTICIPANTS DETAILS

PARTICIPANT NAME	COURSE TITLE	LOCATION	COURSE DATE	ARCTICK / REL (RESTRICTED ELECTRICAL LICENSE)

### PARTICIPANTS DETAILS

FOR WAIT LIST

PARTICIPANT NAME

ARCTICK / REL (RESTRICTED ELECTRICAL LICENSE)


#### PLEASE NOTE

- Please e-mail this form to [TrainingAcademy@daikin.com.au](mailto:TrainingAcademy@daikin.com.au)
- Courses are designed for trade qualified personnel, therefore not suitable for apprentices below the 4th year.
- Apprentices attending will only be allowed with a qualified tradesman from their company.
- Additional applicants should be registered on the waiting list. They will be contacted if seats become available.
- A maximum of 15 participants per class. If your company would like a separate day of training, please email your request.
- Bookings are on a first come first served basis. Only enrolled participants are allowed to attend.
- Confirmation of course enrolment will be sent within 5 working days to the main contact person of your company.

**DAIKIN TRAINING ACADEMY**

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