

Training courses 2018

The UK's leading specialist air conditioning and refrigeration training provider







Get ahead, develop your skills and knowledge

Professional training and practical instruction on latest technology products from the UK's leading specialist air conditioning and refrigeration training provider



Book online now: www.airedale.com/training

Why invest in training?

The air conditioning and refrigeration (AC-R) industry is technologically fast-moving, highly legislated and environmentally challenging - accelerating demand for highly skilled engineers.

By investing in dedicated training, you will develop the specialist knowledge and practical skills that will enable you to install and maintain cutting edge technologies; advance your industry qualifications; improve the efficiency of your customers' AC-R systems and be regulation compliant.

As an employer, the investment you make in your engineers' training will pay dividends in raising the industry standards of your engineers and grow your company's reputation and expertise in the field.

Why choose Airedale?

Founded in 1974, Airedale is the UK number one manufacturer of precision air conditioning and IT cooling systems, chillers and air handling units. As an industry leader, we are at the forefront of international advances in AC-R technology.

Airedale provides the ideal combination of classroom learning and practical training:

- · Innovative, latest technology products
- Theoretical and hands-on courses
- Courses delivered by skilled engineer trainers
- Learning-friendly environment
- Industry-recognised qualifications

How you will benefit?

- New starters / young apprentices: Learn the fundamentals of AC-R and how to install, commission and maintain next generation air conditioning systems
- Field engineers: Develop specialist service skills, fault finding and leak detection
- Experienced engineers: Widen your knowledge in the AC-R sector
- Employers: Increase the return on your investment through value-for-money training and reduced engineer time off-road





Get ahead using the latest technology

Develop your product and service competence by training on the latest technologies. These include innovations in refrigerants, EC fans, inverter driven compressors, controls and free-cooling technology, all on fully operational units in our three workshop areas:

- Air conditioning area: Dedicated training rigs including the very latest in air flow monitoring and water balancing
- Electrical area: Perfect for acquiring all the necessary practical testing and fault-finding skills
- Brazing area: Equipped with dedicated brazing assemblies



Your course instructors

Training is delivered by fully qualified Airedale instructors and carefully tailored to the 'mix' of personnel on the course. All instructors are highly skilled engineers with a broad range of engineering, refrigeration, installation and servicing knowledge. All courses are constantly appraised and continually improved.

Comprehensive manuals are provided on all courses and include course notes, detailed charts, formulae, table and relevant exercise work

Tailored content and Continuing Professional Development (CPD)

Airedale is also CIBSE accredited to deliver CPD to contractors, building service and consulting engineers interested in deepening their knowledge of HVAC technologies and data centre applications.

CPD subjects available include data centre cooling and aisle containment, low global warming potential (GWP) refrigerants, free-cooling chiller technology and energy efficiency design, measurement and optimisation.

Course content, dates and venues are flexible – please enquire for details.





Air conditioning & refrigeration courses 2018

MODULE 1. BASIC REFRIGERATION & AIR CONDITIONING

Ideal for:

Those new to the industry or working in the facility maintenance industry.

Duration: 2 days 09.00 - 15.30

Dates:

January 22 July 16
March 12 September 10
May 14 November 12

Content:

- Air conditioning (AC) equipment and human comfort
- How an efficient AC system benefits the environment
- · Heat gains and losses
- AC-R fundamentals including vapour compression cycle
- · Modern refrigerants
- Basic knowledge of psychrometrics
- Analysis of an AC-R circuit using gauges and thermometers
- Introduction to pressure/enthalpy

Price: £385 (excl VAT) Includes tuition, materials, lunch & refreshments

MODULE 2. AIR CONDITIONING INSTALLATION, COMMISSIONING & MAINTENANCE

Ideal for:

Ideal for engineers entering the installation and commissioning sectors, as well as engineers wishing to build on their existing knowledge of AC-R systems gained in Module 1.

Duration: 3 days 09.00 - 15.30

Dates:

January 24 July 18
March 14 September 12
May 16 November 14

Content:

- Basic fundamentals of commissioning AC systems
- Tools and equipment needed for the testing of air and water flow, temperature and electrical components
- · Sound brazing practices
- Health & Safety aspects of working with various gases
- Safely carrying out pressure testing and evacuation
- · Reclaim and charge refrigerants
- · Installation of AC systems
- · Pipe sizing for refrigeration and water systems
- Duct Sizing
- Commissioning of air, water and refrigeration service and maintenance
- · Fault finding

Price: £550 (excl VAT) Includes tuition, materials, lunch & refreshments

MODULE 3. DESIGN PRINCIPLES

Ideal for:

Installation/maintenance engineers and potential design/ project engineers or those wishing to build on Modules 1 and 2

Duration: 3 days 09.00 - 15.30

Dates: April 24 November 27

Content:

- Load calculations
- Design considerations, including ductwork, water and refrigeration pipework, noise and vibration
- · Design principles such as equipment selection
- · Noise and its implications
- The impact design and equipment selection has on the future efficiency of a system

Price: £550 (excl VAT) Includes tuition, materials, lunch & refreshments

See overleaf for regulatory industry courses ▶▶

10-Day Modular AIR CONDITIONING AND REFRIGERATION TECHNOLOGY COURSE

Ideal for:

Engineers new to the industry or from facilities backgrounds, new recruits and apprentices.

Duration: 10 days

Dates: February 26 October 01

Content:

- An in-depth introduction to air conditioning and refrigeration equipment
- Installation & Commissioning of refrigeration and chilled water-based systems, including air balancing
- The necessary training to achieve accreditation in Refrigerant Handling (F-Gas) and Essential Electrics, legal requirements for anyone who is to work on air conditioning and refrigeration equipment.
- Pipework & Brazing: working with different copper line diameters and brazing material alloys

25% SAVING

Price: £1650 (excl VAT) Includes tuition, materials, lunch & refreshments

Regulatory industry courses 2018

F-GAS CATEGORY 1-4

Ideal for:

Engineers carrying out leak testing, refrigerant recovery, installation or S&M on systems containing over 3kg of refrigerant.

Duration: 3 days 09.00 - 15.30

Dates:

July 24 January 16 March 20 May 22 July 03

September 18 November 06

Content:

- · Current legislation and environmental concerns
- · Causes and effects of ozone depletion and global warming
- · Reclaim and recycling of refrigerants
- Key commissioning techniques leading to a more efficient energy cycle
- · Pipework and brazing skills
- Pressure enthalpy diagrams and the vapour compression cycle
- · Pressure testing and evacuation
- · Changing and reclaiming refrigerants

This course gives you mandatory F-Gas certification for a period of five years as required by EC Regulation 517/2014

Price: £550 (excl VAT) Includes tuition, materials, lunch & refreshments

F-GAS CATEGORY 1-4 REFRESHER

Ideal for:

A one-day reassessment course for engineers who hold F-Gas certification.

Duration: 1 day 09.00 - 15.30

Dates:

January 11 August 07 March 27 October 16 December 04 June 05 June 28 December 18

Content:

• One day reassessment course providing updates on changes in regulations and practical assessments for holders of F-Gas certification as outlined in EU Regulation 517/2014.

Price: £275 (excl VAT) Includes tuition, materials, lunch & refreshments

One-day pipework & brazing courses also available. Price £165 + VAT. Please email connect@airedale.com for dates

ESSENTIAL & REFRIGERATION ELECTRICS

Ideal for:

Those working in the AC-R industry who do not possess a formal electrical qualification required to attain a skillcard.

Duration: 3 days 09.00 - 15.30

Dates:

February 06 August 21
April 17 October 23
June 12 December 11

Content:

- Basic electrical theory including electrical units and their measurement
- Practical wiring skills associated with control and power wiring
- Power supplies use and application
- · Instrumentation types and use
- Safe methods of fault-finding on electrical control systems
- Single and three phase motors, their operation and methods
- · Control devices and how and where they are used
- The need to achieve maximum energy efficiency

Price: £550 (excl VAT) Includes tuition, materials, lunch & refreshments

ESSENTIAL & REFRIGERATION ELECTRICS REFRESHER

Ideal for:

A one-day reassessment course for holders of the essential electrics and basic refrigeration electrics certification.

Duration: 1 day 09.00 - 15.30

Dates:

June 07 October 18 June 26 December 06

August 29

Content:

• Update on changes in regulations and practical assessments

Price: £275 (excl VAT) Includes tuition, materials, lunch & refreshments

Group bookings/multiple course discounts available

How to book:



Call our Training School enquiry desk on: +44 (0) 113 2387853

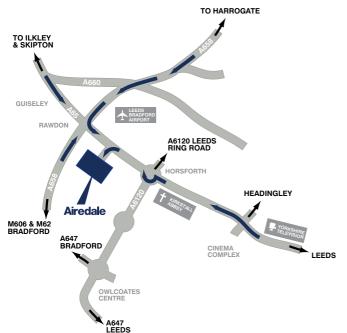


Email: connect@airedale.com



Go to **www.airedale.com/training** to complete and submit an enquiry / booking form

The following map and directions can be downloaded from the Contact Us page at **www.airedale.com**Free parking is available on site





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