



OVERVIEW

Now Includes F-Gas Qualification

Our intensive 10/15 day training course has been structured to meet the ever increasing demands on industry to meet safety, environmental and legal requirements regarding installation, commissioning, service and maintenance of both refrigeration and air-conditioning systems including the electrical aspect of installation. The course is now accredited with a Level 3 VRQ maintenance of refrigeration systems qualification.

WHAT WILL BE GAINED

Sufficient skills, knowledge and techniques to install, pressure test, leak test, evacuate, dehydrate and commission typical air-conditioning units in accordance with the regulations and industry good practice. Also you will gain the ability to be able to maintain, install and repair refrigeration plant.

The course will also give you knowledge and understanding in the following areas:-

- Single stage refrigeration systems
- Domestic refrigeration systems
- Various types of commercial refrigeration systems
- Various types of industrial refrigeration systems
- Performance characteristics
- plant operating conditions

There has been a massive growth in air-conditioning in recent years in mainland Europe and the United Kingdom, where the growth has been biggest of all, the problem posed by the UK is lack of suitably trained personnel to competently be able to carry out these tasks. Not only from the air-conditioning / refrigeration aspect, but also (with the advent of Part P), the electrical side as well.

This course commences with the fundamentals of refrigeration and air conditioning theory and covers major component parts and controls including their operation and replacement, diagnostics, basic electrics, charging with refrigerant, the recovery of refrigerant and leak testing. We aim to make every course as practical as possible and at least 60% of the course content is workshop based.

Candidates do not have to have any formal qualifications to attend this course since we start everyone from the absolute beginning, irrespective of their previous experience. The level 3 qualification can be obtained by completing a workbook and assessments throughout the course, and completing a tutor guided project after the course has been completed.

COST: 10 Days £1,600 (+ VAT) / 15 Days £2,400 (+ VAT)

PREREQUISITE: None

DURATION: 10 / 15 Days

BOOKINGS: Telephone 01246 810444 or Email enquiries@techniquetraining.co.uk

On completion of the course, candidates will understand the operation of a simple system and be able to carry out diagnostic, installation and repair work. The following qualifications will be done during the course;

- EAL Level 3 VRQ Certificate in Air Conditioning and Refrigeration Maintenance
 - CITB **F-Gas** Safe Handling of Refrigerants CAT 1
 - The CITB Pipework and Brazing Course
- And either:
- EAL Certificate for Domestic Electrical Installers VRQ (for people wishing to install or work on Domestic Systems)
- Or
- CITB Essential Electrics / Refrigeration Electrics and Level 3 City & Guilds 17th Edition (For people wishing to work on more commercial and Industrial Systems)

The course has been split into the following sections :-

Refrigeration Servicing and Maintenance - 3 Days

No previous refrigeration experience is required for the course. It is suitable for technically-minded personnel considering a career in the refrigeration industry. This course component covers the Basic Refrigeration Cycle (foundation of domestic, commercial, industrial and automotive refrigeration), Controls, Servicing and Maintenance, Diagnostic Skills, Health and Safety. The course enables personnel to carry out, safely and competently, maintenance of plant and record instrument readings.

Refrigeration Recovery and Repair - 3 Days

This section of the course is suitable for personnel who have a sound knowledge of refrigeration systems. The course includes the use of specialist machines and equipment to recover, evacuate, pressure leak test and recharge systems using frost line, sight glass and/or superheat. It also includes swage brazing, nitrogen purging and the safe use of oxy-acetylene, oxy-butane and/or induction heating equipment.

COST: 10 Days £1,600 (+ VAT) / 15 Days £2,400 (+ VAT)

PREREQUISITE: None

DURATION: 10 / 15 Days

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CITB Pipework and Brazing (Commercial) - 2 Days

This certification course is designed to ensure that personnel are practiced in the use of special tools and equipment used to install or repair copper pipework in small commercial and split unit air-conditioning systems. It also covers the requirements of the Environmental Protection Act regarding the construction/repair of refrigeration pipework and the high pressure implications of new refrigerants. The course ensures approved standards are achieved. Course notes/record book are provided.

CITB Certification/Registration and 'Green Card' is awarded on successful completion of the assessment.

CITB F-Gas Safe Handling of Refrigerants - 2 Days

To meet the minimum requirement to work on air conditioning and refrigeration equipment including air conditioning engineers and technicians, all plant engineers, apprentices, personnel concerned with the recovery, charging or disposal of refrigerants and newcomers to the industry MUST have this qualification.

Category 1 (CITB) J11 covers all aspects of installation, commissioning, servicing, maintenance, recovery and leak checking on all refrigeration, air-conditioning and heat pump systems in accordance with the F-Gas Regulation EC842/2006, regardless of the weight of refrigerant in the system.

Course subjects are:

- Fabricate and fit mechanical and brazed joints
- Pressure test and evacuate to BSEN378
- Charge a blended refrigerant
- Analyse system performance to ensure efficiency (using pressure, temperature, refrigerant state and rule of thumb)
- Leak test to EC1516/2007
- Maintain F-Gas log books and records
- Handle refrigerant safely and dispose of legally
- Pressure Regulation compliance

The EAL Domestic Installer Scheme - 5 Days

This qualification is a modular qualification incorporating 9 modules. This will include an overview of the 17th Edition Wiring Regulations and Inspection and Testing, leading to a VRQ qualification titled Domestic Electrical Installer, allowing you entry onto the Part P register. Further detailed information on this aspect of the course is available.

Or

The CITB / City and Guilds Route - 5 Days

This route leads to the level 3 qualification of the City and Guilds 17th Edition Wiring Regulations. The first 2 days concentrate on the fundamental aspects of electrics, culminating in the CITB qualifications of essential electrics and refrigeration electrics. Following on from this is the City and Guilds 17th Edition qualification. This route does not have as much practical aspect of electrics as the EAL route and is designed for people who already have knowledge of practical wiring.

COST: 10 Days £1,600 (+ VAT) / 15 Days £2,400 (+ VAT)

PREREQUISITE: None

DURATION: 10 / 15 Days

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