



Refrigeration Air Conditioning and Heat Pump Engineering
Technician
Level 3

Overview

Apprenticeship:

Refrigeration Air Conditioning and Heat Pump Engineering Technician

Qualification: Level 3

Duration: 36 months

You will learn about the principles which underpin refrigeration systems, and you will be able to apply the skills necessary to maintain a variety of refrigeration systems and will have a thorough knowledge of refrigerants, system components and the electrics associated with these systems.



Type of job roles the programme is for

- Refrigeration Engineering Technician
- Air Conditioning Engineering Technician
- Heat Pump Engineering Technician
- Service Engineering Technician
- Maintenance Engineering Technician
- Commissioning Engineering Technician

Qualifications

- Level 3 Refrigeration Air Conditioning and Heat Pump Engineering Technician
- Functional Skills in Maths
- Functional Skills in English

Core competencies

- Data analysis
- Legislation
- Regulations and standards
- Mechanical operations
- Environmental impact
- Logical problem solving
- Safety approach

Training Process

Apprenticeship:

Refrigeration Air Conditioning and Heat Pump Engineering Technician

- New learners and employers are assessed by a Skills Coach or a Business Advisor to ensure their suitability for the programme.
- After this, they will complete an initial assessment and scoping to identify areas of improvement, and development goals for the apprenticeship
- An apprenticeship induction is then held for new learners, where they will be introduced to the schedule of study.

Qualification: Level 3

Duration: 36 months

Topics

- Health and safety in RACHP industry
- Applying fundamental principles to RACHP systems
- Complex RACHP systems
- Commissioning and troubleshooting complex RACHP systems
- Work planning and organisation for RACHP systems
- Electrical power and control for RACHP systems
- Relationships to other qualifications
- Sources of general information

Pathway

Apprenticeship:

Refrigeration Air Conditioning and Heat Pump Engineering Technician

There is a clear GC Education & Skills career pathway for the apprentice once they've completed the Level 3 Refrigeration Air Conditioning and Heat Pump Engineering Technician course.

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Construction Apprenticeship Routes

Level 2

Decorative Finishing and Industrial Painting Level 2

General Construction Operations Level 2

Plastering Level 2

Property Maintenance Operative Level 2

Wall and Floor Tiling Level 2

Wood Occupations Level 2

Level 3

Construction Contracting Operations Level 3

Electrotechnical (Installation) Level 3

Gas Engineering Level 3

Plastering Level 3

Refrigeration Air Conditioning and Heat Pump Engineering Technician Level 3

Wood Occupations Level 3