

Gas Engineering
Level 3



Overview

Apprenticeship: Gas Engineering

Qualification: Level 3

Duration: 36 months

Gas engineering involves the safe installation, commission, decommission and the ongoing service and repair of gas appliances in either a domestic or non-domestic setting. Appliances can include, but are not limited to, a range of work categories such as central heating boilers, unvented hot water storage, ducted air heaters, cookers, space heaters, meters, alternative fuel, boosters, testing and purging for industrial pipework. Roles in gas engineering will include explaining how installations and appliances work, providing energy efficiency advice and ensuring customer service excellence at all times. Gas engineering operates strictly within the requirements of health and safety legislation.



Type of job roles the programme is for

- Gas Emergency First Call Operative
- Gas Installation Engineer
- Heating Engineer
- Gas Maintenance Engineer
- Gas Service Technician

Qualifications

- Level 3 Diploma in Gas Engineering
- Functional Skills in Maths
- Functional Skills in English

Progression opportunities

- Operations/Departmental Manager Level 3
- Chartered Manager Degree Apprenticeship Level 5

Core competencies

- Communication
- Logical thinking
- Adaptability
- Time management
- Working safely

Training Process

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- 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.

Skills

- Working Safely-COSHH, Manual Handling, Working at Heights, risk assessments
- Apply safe isolation/electrical awareness
- Safe decommission of gas appliances, inclusive of tightness testing and purging
- Design, install and commission gas pipework systems
- Safe service/installation and commission of gas appliances
- Flue recognition-open, balanced, fanned and application of flueflow and spillage testing
- To demonstrate ambient air testing/carbon monoxide/dioxide atmosphere testing
- To identify gas controls and prove their safe operation
- To identify faults and take appropriate action
- To reinstate systems/appliances following completion of works cleaning up and making good

Knowledge

- Understand safe isolation/electrical awareness
- Understanding of combustion, flueing and combustion analysis
- Understand safety checks on gas appliances 26/9
- LPG awareness
- Design, installation, commissioning/decommissioning of gas systems
- To understand relevant electrical/mechanical principles of gas controls

Behaviours

- Effective communication
- Effective team work
- Logical thinking
- Working effectively
- Time management
- Adaptability

Pathway

Apprenticeship: Gas Engineering

There is a clear GC Education & Skills career pathway for the apprentice once they've completed the Level 3 Gas Engineering 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