



Plumbing & Domestic Heating Technician Apprenticeship

Duration:	48 Months
Level:	3
Entry requirements:	Individual employers will set their criteria
Certified by:	C&G, NICEIC & IFA

Qualification

- Hot & Cold Water Systems
- Central Heating Systems
- Rainwater Systems
- Sanitation Systems
- Environmental Systems
- Domestic Fuel Systems
- Candidates specialise in either Environmental
- Natural Gas
- Solid Fuel
- Oil

Training

Apprentices learn:

Knowledge

- health and safety
- core plumbing systems
- electrical components and control systems
- plumbing science and processes
- principles of environmental technology systems
- principles of fossil fuels
- customer service
- communication

Skills

- safe working
- core plumbing system techniques
- electrical components and control systems techniques
- supervisory skills

Behaviours/attitudes

- honesty and integrity
- dependable and responsible
- enthusiasm and positive attitude
- quality focus
- willingness to learn
- work with others
- sustainable working

Options

- fossil fuel natural gas
- fossil fuel oil
- fossil fuel
- solid fuel
- environmental technologies

Assessment

Assessment methods for this standard are:

Multiple Choice Test

This is made of 50 questions, multiple choice, centrally set and marked. The knowledge areas will be selected from an assessment bank that covers the full knowledge range.

Duration: 90 minutes.

Design Project

This is held at an assessment centre but externally set and marked. Building plans are provided to the apprentice with a job specification, manufacturer's information and data, British Standards and regulations. The apprentice is asked to complete a heating, hot water and cold water design capable of meeting the job specification.

Duration: 7 hours.

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Assessment

Practical installation test (underpinning skills assessment)

Apprentices complete the fabrication of a pipework frame, utilising different materials and pipework components with various jointing techniques.

Duration: Maximum of 6 hours.

Practical application test (applied skills assessment)

The apprentice will inspect a pre-installed unvented cylinder, functioning with electrical components and controls. The assessor will create faults on various components within the system. The apprentice is given 2 hours to identify the faults, repair them and then re-commission the system. The apprentice will complete a service according to manufacturer's instructions, this will be undertaken within one hour.

Duration: Maximum of 3 hours.

Professional discussion

Optional pathways and behaviours will be assessed through the professional discussion and supported by the production of a workplace logbook completed by the apprentice during the end_x0002_point assessment period.

Duration: Maximum of 30 minutes.

Job Role

Plumbing and Domestic Heating Technicians plan, select, install, service, commission and maintain all aspects of plumbing and heating systems. Plumbing and domestic heating technicians can find themselves working inside or outside a property. Customer service skills and being tidy and respectful are important qualities as they can often find themselves working in customers' homes as well as on building sites.

As a competent Plumbing and Heating Technician, the installation of plumbing and heating systems includes accurate measuring, marking, cutting, bending and jointing metallic and non-metallic pipework. Appliances and equipment can include gas, oil and solid fuel boilers as well as pumps, heat emitters, bathroom furniture or controls as part of a cold water, hot water, and central heating or above ground drainage and rainwater systems.

Plumbing and Domestic Heating Technicians are at the forefront of installing new and exciting environmental technologies like heat pumps, solar thermal systems, biomass boilers and water recycling systems. It is important for a plumbing and heating technician to be able to work independently or as a team and use their knowledge and skills to ensure that both the system and appliances are appropriately selected and correctly installed, often without any supervision, and done so in a safe, efficient and economical manner to minimise waste.

Further Courses

- LPG
- Combi Fault Finding
- Unvented Hot Water
- Water Regs
- Energy Efficiency
- Commercial Catering
- Commercial Laundry & Heat Pumps

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