

# Level 3

APPRENTICESHIP STANDARD

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# Gas Engineering Operative

24 Months



## For careers in gas engineering

- Gas engineer
  - Trainee gas engineer
  - Gas service installer
  - Gas service technician
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# Standard overview

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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. Roles in gas engineering are physical in nature, and may involve lifting and moving of equipment, working at heights and working in confined spaces.

All gas engineers must be registered on the Gas Safe® Register for each appliance in which they are competent to undertake work on. They must be registered on the Gas Safe® Register for four appliances.

The standard would be suitable for those who have previously completed a Level 2 plumbing qualification or mature learners progressing within the plumbing and heating industry.

## Standards – the benefits

At Learning Unlimited, we provide high quality training and development solutions for organisations across the UK. The Level 3 apprenticeship standard offered by Learning Unlimited brings together a range of benefits. From start to finish, we work with your business to tailor our training to meet your needs. With an excellent track record in delivering training to a variety of organisations and businesses, we can find a solution to help you take your staff to the next level.

## Entry requirements

- Three GCSEs at grade C/4 or above (including maths and a D/3 in English).
- Those without a Level 2 in English will need to have completed this prior to taking their End Point Assessment.
- Individuals with a Level 2 in Plumbing (or related subject area), or those aged 17 or above with at least 12 months plumbing experience, may be considered for entry on to this standard.

## Duration

- 21 months (plus 3 months for the End Point Assessment)

## Workplace behaviours development

- Ensure personal wellbeing and the safety of customers and others is a priority.
- Demonstrate an awareness of how the work impacts on others in the work environment.
- Be risk aware showing the desire to reduce risks through systematic monitoring and checking information, and the strict compliance with appropriate regulations and normative documents.
- Undertake continuous professional development to enhance knowledge and skills to maintain competence.

## End Point Assessment (EPA)

- Knowledge test
- Gas Safe® registration
- Competency test
- Work log review including portfolio

## Skills and knowledge development

- Electrical awareness and be able to carry out safe isolation and essential electrical safety checks.
- Combustion, combustion analysis, gas properties, carbon monoxide (CO), and types of burners.
- Work in compliance with statutory and normative documentation including building regulations, water regulations and electrical regulations.
- Emergency procedures, including gas escapes, report of fumes and for unsafe situations.
- Demonstrate tightness testing, purging and relight procedures on gas installations.

## Qualifications or Industry Accreditation gained

- Registration with Gas Safe® register for four appliances.
- In achieving a pass or a distinction in this apprenticeship, the successful apprentice will be eligible to apply for membership with the Institution of Gas Engineers and Managers (IGEM).

# Delivery plan and apprentice progression

Throughout the apprenticeship, the apprentice is supported by a work-based tutor and employer mentor to ensure that they are progressing at the right pace and developing the skills and knowledge expected.

## Months 1-12

- Induction
- Knowledge training - developing knowledge, skills and behaviours
- Use of work equipment
- Knowledge assessment
- Observations
- Portfolio tasks
- Mentor meetings

## Months 13-21

- Workplace - developing knowledge, skills and behaviours within the context of the working environment
- Knowledge application test
- Workplace observation
- Work log
- Portfolio tasks
- Mentor meetings

## Months 22-24

- Mock end point assessment
- End Point assessment - Gas Safe® registration, competency test and work log review
- Knowledge assessment

## Off-the-job training

Every apprenticeship includes off-the-job training – equivalent to one day per week. This takes place during time normally spent at work but does not include the usual daily duties and responsibilities carried out as part of their normal role. It can consist of work and tasks ranging from projects, lectures and seminars to day release, blended learning and training to use specialist equipment.

It can form part of regular weekly sessions or be combined for larger blocks of time, depending on the approach that works best for the employer. 20% off-the-job equates to approximately one working day per week and needs to be documented throughout.

The delivery plan is for illustrative purposes only and may be subject to change. Stage duration and completion will vary dependent upon the apprentices ability and/or employer requirements.

## Progression

Upon successful completion apprentices will be eligible for the following job roles or further studies:

- Gas Engineer
- Trainee Gas Engineer
- Gas Service Installer
- Gas Service Technician
- Opportunities to progress within employment or to an alternative qualification or higher apprenticeship in team leading or management are available.