



Level 3 NVQ Diploma in **DOMESTIC HEATING**

Gas Fired Water & Central Heating Appliances

Qualification Specification

Overview

This qualification is a National Vocational qualification (NVQ). It involves the skills and knowledge needed to do the job, ability to organise work and identify and prevent problems. NVQs are based on national occupational standards, which the learner must meet to be competent in a particular task. The achievement of NVQs will encourage an employee to value their contribution to the workplace, and it will develop their skills and potential. This qualification requires occupational evidence.

Typical Job

Plumber, Plumbing and Domestic Heating Installer, Plumbing and Domestic Heating Engineer

Qualification code:	600/1454/4
Level:	3
Total qualification time:	1380
Guided learning hours:	962
Minimum learning age:	16



Purpose of qualification

The qualification provides learners with practical experience of a heating engineer and an expectation of some of the situations that they could face as a heating engineer in the building services sector. More specifically, it provides learners with the required underpinning knowledge and related practical skills they will need to prove competence and to subsequently pursue a career in this occupational area.

Key topics include commissioning, service and maintenance techniques for cold water, hot water, central heating systems and Gas Fired Water and Central Heating Appliances

What does this qualification cover?

This qualification has TWELVE core mandatory units and this will provide learners with the competence to work in the plumbing industry at the level achieved, the structure is listed on page 3.

Who is this qualification for?

This qualification is predominantly for learners who want to be heating engineers working in the BSE industry. The qualification may also be suitable for learners who are interested in domestic heating and/or are considering a career change. The qualification has been specifically designed as a competence component in the Apprenticeship framework.

It is suitable for learners aged:

- 16-18
- 19+

Who supports this qualification?

This qualification is:

- Accredited by Ofqual at level 3
- Endorsed by employers as facilitating progression to an apprenticeship and/or one or more of the industry recognised qualifications at level 3*

*Letters of endorsement from employers and other organisations can be viewed on the EAL website.

What could this qualification lead to?

Typical job roles include:

Plumber, Plumbing and Domestic Heating Installer, Plumbing and Domestic Heating Engineer

This qualification relates to:

- EAL Level 1 Diploma in Plumbing
- EAL Level 3 Diploma in Plumbing and Heating
- EAL Level 2 NVQ Diploma in Plumbing and Heating
- EAL Level 3 NVQ Diploma in Plumbing and Heating

Entry requirements

Learners must be at least 16 years old. There are no formal entry requirements for this qualification. However, learners must have the potential to achieve all aspects of the qualification. In particular, learners should be able to demonstrate that they have the minimum levels of literacy and numeracy required to comply with the health and safety aspects of the scheme, the completion of the learning outcomes, and the assessments.

How is the qualification achieved?

This qualification will be achieved when the learner has successfully completed:

- The TWELVE mandatory units, including any related Centre marked assignments/practical tests and externally marked exams.

What will be assessed?

This qualification is made up of units to which appropriate assessment methods have been applied. The units contain the learning outcomes and the assessment criteria that the learner is to be assessed against.

All learning outcomes within the qualification will be assessed. In order to meet this requirement, it is advised that centres should maintain an assessment and feedback record for each learner. This will detail the evidence evaluated against the learning outcome and the feedback given to the learner. All learner evidence must be available to the EAL External Quality Assurer.

How will it be assessed?

Where appropriate, learners will be assessed in naturally occurring planned activities carrying out their work tasks. Assessment against the learning outcomes of the qualification may be through practical observation and oral questioning. Performance evidence may be provided by the employer in partnership with the approved centre staff where established performance management processes are used by the employer to monitor staff performance.

The internal assessments will be a combination of on-screen exams, written and short answers and simulated practical assessments

The internal assessments are set by EAL and the on-screen exam is marked by EAL and all other internal assessments are marked by members of the delivery team at the Centre.

Where the assessment takes the form of written/short answer or multiple choice question papers, these must be treated as controlled assessments.

Structure

The qualification will be obtained by the learner once they have completed the mandatory units.

Achievement of the qualification will require at least 962 Guided Learning Hours (GLH) and has 1380 hours Total Qualification Time.

Mandatory units: this unit must be completed:

Unit	Unit title	Credit value	GLH	Ofqual Code
QBSE3/05	Understand how to organise resources within BSE	3	26	R/602/2498
QMES3/02	Understand and carry out electrical work on domestic plumbing and heating systems and components	12	102	T/502/9157
QDMES3/05	Understand and apply domestic cold water system installation, commissioning, service and maintenance techniques	9	76	K/502/8930
QDMES3/06	Understand and apply domestic hot water system installation, commissioning, service and maintenance techniques	9	76	K/502/9155
QDMES3/07	Understand and apply domestic central heating system installation, commissioning, service and maintenance techniques	12	98	M/502/9156
QDHTG3/04	Install, commission, service and maintain domestic heating systems	3	4	A/502/8933
QDNG3/01	Understand core gas safety principles for natural gas within domestic building services engineering	13	120	J/502/9390
QDSG3/2.3	Specific core installation & maintenance	21	120	H/502/8487
QDSG3/3.3	Install domestic gas water heaters and wet central heating appliances	18	134	Y/502/8454
QDSG3/3.4	Maintain gas water heating and wet central heating appliances	16	75	T/502/8459
QDSG3/3.5	Install, commission and de-commission gas pipework up to 35mm 1¼ diameter in domestic and small commercial premises	19	115	T/502/8381
QDSG2/3.6	Tightness test, purge, commission and de-commission gas pipework up to 35mm 1¼ diameter in small natural gas installations	16	3	K/502/8376

Completion of this Qualification Combination will enable Gas Registration in the following categories: CCN 1, CENWAT 1, CPA 1, MET1/2, CoNGLP1 PD