



# Level 2 NVQ Diploma in PLUMBING AND HEATING

## 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:	501/1752/X
Level:	2
Total qualification time:	760
Guided learning hours:	596
Minimum learning age:	16



## Purpose of qualification

The qualification provides learners with practical experience of plumbing and an expectation of some of the situations that they could face as a plumber 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 progress on to the Level 3 NVQ Diploma in Plumbing and Heating and to subsequently pursue a career in this occupational area.

Key topics include health and safety in the building services environment, scientific principles within the plumbing and heating industry, pipework fabrication process and techniques and installation and maintenance techniques for cold water, hot water, central heating and above ground drainage systems.

### What does this qualification cover?

This qualification has TWELVE core mandatory units covering all the criteria a learner will need to know and be able to demonstrate in order to work within 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 plumbers working in the BSE industry. The qualification may also be suitable for learners who are interested in plumbing 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 2
- Endorsed by employers as facilitating progression to an apprenticeship and/or one or more of the industry recognised qualifications at level 2\*

\*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 3 NVQ Diploma in Plumbing and Heating
- EAL Level 3 NVQ Diploma in 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 on-screen examinations and Centre marked assignments/practical tests

## 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 Level 2 NVQ Diploma in Plumbing and Heating will be awarded to learners once they have completed all the mandatory units (see Section 6 for further information about assessment).

Achievement of the qualification will require at least 596 Guided Learning Hours (GLH) and has 760 hours Total Qualification Time.

### Mandatory units: this unit must be completed:

Unit	Unit title	Credit value	GLH	Ofqual Code
QBSE2/01	Understand and carry out safe working practices in building services engineering	10	88	J/602/2479
QBSE2/02	Understand how to communicate with others within building services engineering	3	28	J/602/2482
QBSE2/03	Understand how to apply environmental protection measures within BSE	4	38	D/602/2486
QBSE2/04	Apply safe working practices in building services engineering working environment	2	4	T/602/2493
QDMES2/01	Understand and carry out site preparation and pipework fabrication techniques for domestic plumbing and heating systems	10	88	D/602/2682
QDMES2/02	Understand and apply domestic cold water system installation and maintenance techniques	8	62	H/602/2697
QDMES2/03	Understand and apply domestic hot water system installation and maintenance techniques	8	62	F/602/2884
QDMES2/04	Understand and apply domestic central heating system installation and maintenance techniques	10	82	Y/602/2888
QMES2/01	Understand how to apply scientific principles within MES	7	66	J/602/2496
QPLG2/01	Understand and apply domestic rainwater system installation and maintenance techniques	4	30	F/602/2917
QPLG2/02	Understand and apply domestic above ground drainage system installation and maintenance techniques	6	44	J/602/2921
QPLG2/04	Install and maintain domestic plumbing and heating systems	4	4	D/602/2939