

# BPEC - Purpose Statement



<b>Title of the Qualification</b>	BPEC - Level 3 Diploma in Plumbing Foundation
<b>Qualification Number (QN)</b>	600/9353/5
<b>Overview</b>	The Level 3 Diploma in Plumbing Foundation is intended as a Tech Level Qualification. It requires the completion of knowledge and practical assessments designed to provide individuals with the basic skills and understanding to allow a progression route to completion of the L3 NVQ Diploma in Plumbing and Heating, Domestic Heating or L3 Plumbing Foundation qualification.
<b>-Who is this qualification for</b>	The qualification is intended for 16-19 year old learners who are in full time education. It is for someone who wants to work in the Building Services Engineering Industry and envisages a career as a Plumber or Plumbing & Heating Engineer. The qualification may also be suitable for other learners, such as adults, who are interested in plumbing or changing their career path.
<b>Pre Entry Requirements</b>	Learners should: <ul style="list-style-type: none"> <li>➤ Be at least 16 years of age and have completed The Level 2 Diploma in Plumbing Foundation.</li> <li>➤ Have appropriate literacy &amp; numeracy skills.</li> </ul>
<b>-What does this qualification Cover</b>	The qualification requires the learner to complete 6 units (all of which are mandatory) and include the assessment of both practical skills and knowledge. The topics covered are: <ul style="list-style-type: none"> <li>➤ Understand how to organise resources within BSE</li> <li>➤ Understand and apply domestic cold water system installation, commissioning, service and maintenance techniques</li> <li>➤ Understand and apply domestic hot water system installation, commissioning, service and maintenance techniques</li> <li>➤ Understand and apply domestic central heating system installation, commissioning, service and maintenance techniques</li> <li>➤ Understand and carry out electrical work on domestic plumbing and heating systems and components</li> <li>➤ Understand and apply domestic sanitation system installation, commissioning, service and maintenance techniques</li> </ul>

<p><b>What Could This Qualification Lead to</b></p> <p>-Will the qualification lead to employment</p> <p>-Will the qualification lead to further learning</p> <p>Related Jobs</p>	<p>This qualification will not automatically qualify learners to work as a Plumber or Plumbing &amp; Heating Engineer but may provide a platform for employment and further study.</p> <p>The qualification provides a platform to seek employment as a Plumber or Plumbing and Heating Engineer. Units of this qualification are constituents of:</p> <ul style="list-style-type: none"> <li>➤ BPEC 600/6284/8 - Level 3 NVQ Diploma in Domestic Plumbing and Heating (Gas Water Heating and Wet Central Heating Appliances)</li> <li>➤ BPEC 600/6286/1 - Level 3 NVQ Diploma in Domestic Heating (Gas Water Heating and Wet Central Heating Appliances)</li> <li>➤ BPEC 600/6863/2 - Level 3 NVQ Diploma in Domestic Plumbing and Heating (Environmental Technology)</li> <li>➤ BPEC 600/6871/1 - Level 3 NVQ Diploma in Domestic Heating (Environmental Technology)</li> </ul> <p>and may provide evidence to prospective employers that the learner is well placed to complete these qualifications or an apprenticeship framework.</p> <p>Learners who complete this qualification may go on to complete:</p> <ul style="list-style-type: none"> <li>➤ BPEC 600/6284/8 - Level 3 NVQ Diploma in Domestic Plumbing and Heating (Gas Water Heating and Wet Central Heating Appliances)</li> <li>➤ BPEC 600/6286/1 - Level 3 NVQ Diploma in Domestic Heating (Gas Water Heating and Wet Central Heating Appliances)</li> <li>➤ BPEC 600/6863/2 - Level 3 NVQ Diploma in Domestic Plumbing and Heating (Environmental Technology)</li> <li>➤ BPEC 600/6871/1 - Level 3 NVQ Diploma in Domestic Heating (Environmental Technology)</li> </ul> <p>Primarily the following jobs are related to this qualification:</p> <ul style="list-style-type: none"> <li>➤ Plumber</li> <li>➤ Plumbing and heating engineer</li> <li>➤ Gas engineer</li> <li>➤ Gas service engineer</li> <li>➤ Heating and ventilating engineer</li> <li>➤ Heating engineer</li> </ul>
<p><b>Who Supports This Qualification</b></p>	

[Info following is not for submission](#)

Who is this qualification for

It is for someone who wants to work in the xxxxxxx industry or envisages a career in the xxxxxx occupations groups

What does this Qualification Cover

Describe in summary terms the key topics/skills/knowledge the student will need to successfully complete

Summarise any prior qualifications/levels of attainment a student

This is a Level 2 qualification of 70 credits and 588 guided learning hours consisting of 10 mandatory units. **ALL** units must be achieved to achieve the overall qualification.

Successful completion of this qualification provides learners with the basic knowledge and skills required for progression to complete either the Level 2 NVQ Diploma in Plumbing and Heating or the Level 2 NVQ Diploma in Heating. The qualification and unit details are shown below:

What will the learner study as part of this qualification

<b>Understand and carry out safe working practices in Building Services Engineering</b>
<b>Understand how to communicate with others within Building Services Engineering</b>
<b>Understand how to apply environmental protection measures within BSE</b>
<b>Understand how to apply environmental protection measures within BSE</b>
<b>Understand and carry out site preparation, and pipework fabrication techniques for domestic plumbing and heating systems</b>
<b>Understand and apply domestic cold water system installation and maintenance techniques</b>
<b>Understand and apply domestic hot water system installation and maintenance techniques</b>
<b>Understand and apply domestic central heating system installation and maintenance techniques</b>
<b>Understand and apply domestic rainwater system installation and maintenance techniques</b>
<b>Understand and apply domestic above ground drainage system installation and maintenance techniques</b>

**Understand and carry out safe working practices in Building Services Engineering**

**Understand how to communicate with others within Building Services Engineering**

**Understand how to apply environmental protection measures within BSE**

**Understand how to apply environmental protection measures within BSE**

**Understand and carry out site preparation, and pipework fabrication techniques for domestic plumbing and heating systems**

**Understand and apply domestic cold water system installation and maintenance techniques**

**Understand and apply domestic hot water system installation and maintenance techniques**

**Understand and apply domestic central heating system installation and maintenance techniques**

**Understand and apply domestic rainwater system installation and maintenance techniques**

**Understand and apply domestic above ground drainage system installation and maintenance techniques**

What knowledge and skills will the student develop as part of this qualification and how might these be of use and value in further studies

Which subjects will compliment this course


The L1 and L2 Plumbing Foundation qualifications require the completion of centre based knowledge and practical assessments designed to provide individuals with the basic skills and understanding to allow a progression route to completion of the L2 NVQ Diploma in Plumbing and Heating, Domestic Heating or L3 Plumbing Foundation qualification.

The L3 Plumbing Foundation requires the completion of centre based knowledge and practical assessments designed to provide individuals with the basic skills and understanding to allow a progression route to completion of the L3 NVQ Diploma in Domestic Plumbing and Heating or Domestic Heating qualification.

## **5314: PLUMBERS AND HEATING AND VENTILATING ENGINEERS**

### **Job description:**

Jobholders in this unit group assemble, install, maintain and repair plumbing fixtures, heating and ventilating systems and pipes and pipeline systems in commercial, residential and industrial premises and public buildings.

### **Entry requirements of this job:**

There are no formal academic requirements although GCSEs/S grades are advantageous. NVQs/SVQs in Mechanical Engineering Services are available at Levels 2 and 3. Apprenticeships are available for plumbing and lead to an NVQ/SVQ at Level 3.

### **Tasks required by this job include:**

- examines drawings and specifications to determine layout of system;
- measures and cuts required lengths of copper, lead, steel, iron, aluminium or plastic using hand or machine tools;
- installs fittings such as storage tanks, cookers, baths, toilets, taps and valves, refrigerators, boilers, radiators and fires;

- tests completed installation for leaks and makes any necessary adjustments;
- attaches fittings and joins piping by welding, soldering, cementing, fusing, screwing or other methods;
- repairs burst pipes and mechanical and combustion faults and replaces faulty taps, washers, valves, etc.

**NS-SEC categorisations:**

The simplified NS-SEC analytic class for this code is 5

The simplified NS-SEC operational category for this code is 11.1

To find your exact NS-SEC code, please use the [NS-SEC Coding Tool](#).

**Jobs related to this code:**

- Gas engineer
- Gas service engineer
- Heating and ventilating engineer
- Heating engineer
- Plumber
- Plumbing and heating engineer

**This unit group is part of:**

- Minor Group [531: CONSTRUCTION AND BUILDING TRADES](#)
- Sub-Major Group [53: SKILLED CONSTRUCTION AND BUILDING TRADES](#)
- Major Group [5: SKILLED TRADES OCCUPATIONS](#)

[click here to return to code 531](#)