



City & Guilds Level 3 End-point Assessment in Plumbing and Domestic Heating Technician (9289-12/14)

Standard: ST0303

EPA Plan: Version 1.2

Version 1.0

Last modified September-2025

Knowledge test Paper 1

**(9289-300) – Sample paper, multiple-choice answer
sheet and mark scheme**

Version	Summary of changes	Section
1.0 September 2025	Document created	N/A

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1 Introduction

Area	Description
What is in this document	This document contains the sample knowledge test, answer sheet and mark scheme for the City & Guilds Level 3 End-point Assessment in Plumbing and Domestic Heating Technician multiple-choice knowledge test Paper 1 (9289-300).
Documents included:	<ul style="list-style-type: none">• Sample questions• Answer sheet• Mark scheme <p>Apprentices should be provided with the sample questions and the answer sheets.</p> <p>The mark scheme is to be used by employers/training providers/tutors to mark the completed test.</p>

Note: this sample paper-based version of the multiple-choice test is to support formative assessment activities.

Live versions of the multiple-choice test will be accessed using City & Guilds E-volve online sy. Please refer to the EPA Manual for details on how to book and administer live tests.

2 9289-300 End-point Assessment – multiple-choice knowledge test Paper 1 (sample questions)

Test duration: 120 minutes

You should have the following for this test:

- a pen with black or blue ink
- multiple-choice questions answer sheet
- calculator.

Read the following notes before you answer any questions.

- Attempt all questions.
- If you find a question difficult, leave it and return to it later.

This paper contains 60 multiple-choice questions worth 1 mark each.

This test paper is the property of City & Guilds.

How to complete the multiple-choice answer sheet

Each multiple-choice question shows four possible answers (lettered 'a', 'b', 'c', 'd'); only one is correct.

Decide which one is correct and mark your answer on the answer sheet with your pen.

For example, if you decide 'b' is correct, mark your answer with a cross like this:

1 a ☐ b ☒ c ☐ d ☐

If you change your answer, cancel your first choice by filling in the box then put a cross in the answer which you have now decided is correct, like this:

1 a ☐ b ☒ c ☒ d ☐

Q1	Which health and safety legislation requires employers to ensure that safe equipment and training for their employees are in place? <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Personal Protective Equipment at Work Regulations.</p> <p>b) Provision and Use of Work Equipment Regulations.</p> <p>c) Manual Handling Operations Regulations.</p> <p>d) Health and Safety (First-Aid) Regulations.</p>
Spec reference	AC1.1

Q2	Which hazard is associated with working on rainwater systems? <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Falls.</p> <p>b) Trips.</p> <p>c) Slips.</p> <p>d) Burns.</p>
Spec reference	AC2.1

Q3	Which type of asbestos is blue in colour? <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Amosite.</p> <p>b) Crocidolite.</p> <p>c) Chrysotile.</p> <p>d) Actinolite.</p>
Spec reference	AC2.6

Q4	What is the first action to take if an emergency happens? (1 mark)
	<p>Answers</p> <p>a) Call emergency services.</p> <p>b) Ensure personal safety.</p> <p>c) Raise the alarm to evacuate.</p> <p>d) Administer first aid.</p>
Spec reference	AC4.2

Q5	What type of gas is supplied in a red bottle? (1 mark)
	<p>Answers</p> <p>a) Butane.</p> <p>b) Oxygen.</p> <p>c) Propane.</p> <p>d) Acetylene.</p>
Spec reference	AC6.1

Q6	Which task involves working at heights? (1 mark)
	<p>Answers</p> <p>a) Installing an air admittance valve.</p> <p>b) Replacing a radiator.</p> <p>c) Replacing an appliance trap.</p> <p>d) Installing an external soil stack.</p>
Spec reference	AC7.1

Q7	What danger is associated with working in a confined space? (1 mark)
	<p>Answers</p> <p>a) Electrocution.</p> <p>b) Asphyxiation.</p> <p>c) Asbestosis.</p> <p>d) Dermatitis.</p>
Spec reference	AC8.3

Q8	Which type of jointing method uses solder which is contained in the fitting? (1 mark)
	<p>Answers</p> <p>a) Integral ring.</p> <p>b) Push-fit.</p> <p>c) Compression.</p> <p>d) End feed.</p>
Spec reference	AC10.3

Q9	<p>Identify the clip shown in the image.</p> <div data-bbox="699 190 1056 542" data-label="Image"> </div> <p>www.toolstation.com</p> <p>(1 mark)</p>
	<p>Answers</p> <p>a) School board clip.</p> <p>b) Saddle clip.</p> <p>c) Munson ring clip.</p> <p>d) Copper stand-off clip.</p>
Spec reference	AC12.3

Q10	<p>What is the internationally recognised (SI) unit for temperature?</p> <p>(1 mark)</p>
	<p>Answers</p> <p>a) Celsius.</p> <p>b) Rankine.</p> <p>c) Fahrenheit.</p> <p>d) Kelvin.</p>
Spec reference	AC14.1

Q11	Which material has a relative density of 8.9? (1 mark)
	<p>Answers</p> <p>a) Lead.</p> <p>b) PVCu.</p> <p>c) Aluminium.</p> <p>d) Copper.</p>
Spec reference	AC15.1

Q12	What is the term for the heat required to alter the state of a substance without affecting its temperature? (1 mark)
	<p>Answers</p> <p>a) Sensible heat.</p> <p>b) Latent heat.</p> <p>c) Useable heat.</p> <p>d) Transferable heat.</p>
Spec reference	AC16.3

Q13	What is the change of state called when a substance changes from a solid to a liquid? (1 mark)
	<p>Answers</p> <p>a) Condensing.</p> <p>b) Freezing.</p> <p>c) Boiling.</p> <p>d) Melting.</p>
Spec reference	AC16.2

Q14	What is the unit of measurement for flow rate? (1 mark)
	<p>Answers</p> <p>a) m/s²</p> <p>b) Bar</p> <p>c) l/s</p> <p>d) N/m²</p>
Spec reference	AC17.2

Q15	What is the effect on liquids and gases if there are restrictions in the pipework? (1 mark)
	<p>Answers</p> <p>a) Stabilised velocity.</p> <p>b) Reduced pressure loss.</p> <p>c) Increased noise.</p> <p>d) Improved flow efficiency.</p>
Spec reference	AC17.6

Q16	What is a principle of basic mechanics? (1 mark)
	<p>Answers</p> <p>a) Electromagnetism.</p> <p>b) Fluid dynamics.</p> <p>c) Electron flow.</p> <p>d) Theory of moments.</p>
Spec reference	AC18.2

Q17	Calculate the size of fuse required (in Amps) for a 600W boiler connected to a 230V supply. (1 mark)
	<p>Answers</p> <p>a) 3A</p> <p>b) 5A</p> <p>c) 13A</p> <p>d) 15A</p>
Spec reference	AC19.3

Q18	Which energy source is renewable? (1 mark)
	<p>Answers</p> <p>a) Coal.</p> <p>b) Oil.</p> <p>c) Solar.</p> <p>d) Gas.</p>
Spec reference	AC20.2

Q19	What is a benefit of using energy efficient equipment? (1 mark)
	<p>Answers</p> <p>a) Increased water consumption.</p> <p>b) Higher greenhouse gas emissions.</p> <p>c) Improved carbon footprint.</p> <p>d) Greater availability.</p>
Spec reference	AC21.1

Q23	What factor affects working time allocation to work activities during the installation phase? (1 mark)
	<p>Answers</p> <p>a) Material deliveries.</p> <p>b) Type of building.</p> <p>c) Location of building.</p> <p>d) Type of consumables.</p>
Spec reference	AC26.4

Q24	What type of water source is always found underground? (1 mark)
	<p>Answers</p> <p>a) Reservoir.</p> <p>b) Lake.</p> <p>c) River.</p> <p>d) Well.</p>
Spec reference	AC28.2


Q25	What can unwholesome water be used for? <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Flushing toilets.</p> <p>b) General use.</p> <p>c) Drinking purposes.</p> <p>d) Food preparation.</p>
Spec reference	AC28.4

Q26	Which cold water system incorporates a break cistern and pumps? <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Direct boosted.</p> <p>b) Indirect boosted.</p> <p>c) Indirect.</p> <p>d) Direct.</p>
Spec reference	AC29.1

Q27	<p>Identify the hot water system shown in the image.</p> <div data-bbox="710 230 1051 734" data-label="Diagram"> </div> <p style="text-align: right;">(1 mark)</p>
	<p>Answers</p> <p>a) Indirect cylinder.</p> <p>b) Thermal store.</p> <p>c) Combination boiler.</p> <p>d) Single point heater.</p>
Spec reference	AC29.2

Q28	<p>What type of domestic central heating system contains 3 × two port valves?</p> <p style="text-align: right;">(1 mark)</p>
	<p>Answers</p> <p>a) S plan.</p> <p>b) S Plan +.</p> <p>c) W Plan.</p> <p>d) Y Plan.</p>
Spec reference	AC29.3

Q29	Which sanitary pipework system contains one vertical pipe which terminates to the atmosphere? <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Ventilated branch stack system.</p> <p>b) Stub stack system.</p> <p>c) Primary ventilated stack system.</p> <p>d) Secondary ventilated stack system.</p>
Spec reference	AC29.4

Q30	<p>Identify the gutter profile shown in the image.</p> <div style="text-align: center;">  </div> <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Square.</p> <p>b) Ogee.</p> <p>c) Half round.</p> <p>d) High capacity.</p>
Spec reference	AC29.5

Q31	What is fluid category 5? <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Fluids posing a serious health hazard.</p> <p>b) Fluids posing a significant health hazard.</p> <p>c) Fluids that have slight impairment.</p> <p>d) Wholesome water with no health risk.</p>
Spec reference	AC30.1

Q32	What is an advantage of an indirect cold water system? <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Low operating pressure.</p> <p>b) No stagnant water.</p> <p>c) Low installation cost.</p> <p>d) Low maintenance.</p>
Spec reference	AC30.2

Q33	Which component regulates water entry into a storage cistern? <div style="text-align: right;">(1 mark)</div>
	<p>Answers</p> <p>a) Gate valve.</p> <p>b) Stop valve.</p> <p>c) Float valve.</p> <p>d) Check valve.</p>
Spec reference	AC30.4

Q34	What is the minimum pipe size for a distribution pipe on an instantaneous hot water system? (1 mark)
	<p>Answers</p> <p>a) 10 mm</p> <p>b) 15 mm</p> <p>c) 22 mm</p> <p>d) 28 mm</p>
Spec reference	AC31.2

Q35	Which Building Regulations Approved Document provides information relating to the insulation of hot water system pipework? (1 mark)
	<p>Answers</p> <p>a) Part A.</p> <p>b) Part H.</p> <p>c) Part L.</p> <p>d) Part P.</p>
Spec reference	AC31.4

Q36	What is an advantage of a low temperature central heating system? (1 mark)
	<p>Answers</p> <p>a) Reduced carbon emissions.</p> <p>b) Higher flow rates.</p> <p>c) Larger radiators installed.</p> <p>d) Reduced installation cost.</p>
Spec reference	AC32.1

Q37	What is the working principle of a combination boiler? (1 mark)
	<p>Answers</p> <p>a) Heats hot water in a storage cylinder and supplies one outlet.</p> <p>b) Heats hot water in a storage cylinder and provides space heating.</p> <p>c) Heats hot water on demand and supplies it through a head.</p> <p>d) Heats hot water on demand and provides space heating from one unit.</p>
Spec reference	AC32.3

Q38	What is the maximum floor area that can be served by one heating zone? (1 mark)
	<p>Answers</p> <p>a) 150 m²</p> <p>b) 175 m²</p> <p>c) 200 m²</p> <p>d) 225 m²</p>
Spec reference	AC32.6

Q39	What is an advantage of a stub stack system? (1 mark)
	<p>Answers</p> <p>a) Good airflow.</p> <p>b) Saves space.</p> <p>c) Ideal for complex layouts.</p> <p>d) Suitable for high-rise buildings.</p>
Spec reference	AC33.1

Q40	What is the minimum size waste pipe required for a wash hand basin? (1 mark)
	<p>Answers</p> <p>a) 22 mm</p> <p>b) 32 mm</p> <p>c) 40 mm</p> <p>d) 50 mm</p>
Spec reference	AC33.3

Q41	Which material is commonly used for rainwater pipes (RWP)? (1 mark)
	<p>Answers</p> <p>a) Mild steel.</p> <p>b) PVCu.</p> <p>c) Stainless steel.</p> <p>d) Polypropylene.</p>
Spec reference	AC34.2

Q42	What is a negative effect of temperature variation on a rainwater system? (1 mark)
	<p>Answers</p> <p>a) Surface pitting.</p> <p>b) Erosion corrosion.</p> <p>c) Fitting failure.</p> <p>d) Dezincification.</p>
Spec reference	AC34.4

Q46	Which document provides information relating to testing rainwater systems? (1 mark)
	<p>Answers</p> <p>a) Job specification.</p> <p>b) Maintenance record.</p> <p>c) British Standards.</p> <p>d) Supplier catalogue.</p>
Spec reference	AC40.1

Q47	What is the main reason for checking manufacturer's instructions and maintenance schedules? (1 mark)
	<p>Answers</p> <p>a) To estimate installation time.</p> <p>b) To choose product colours.</p> <p>c) To determine service intervals.</p> <p>d) To compare brands.</p>
Spec reference	AC46.1

Q48	Which Approved Code of Practice (ACoP) provides guidance on temperature control of hot water systems? (1 mark)
	<p>Answers</p> <p>a) L8.</p> <p>b) L23.</p> <p>c) L131.</p> <p>d) L142.</p>
Spec reference	AC47.4

Q49	What check is carried out during the periodic servicing of a sealed central heating system? (1 mark)
	<p>Answers</p> <p>a) Condition of waste pipeworks.</p> <p>b) Operation of traps.</p> <p>c) Condition of cylinders.</p> <p>d) Operation of heat emitters.</p>
Spec reference	AC48.1

Q50	Which document should be consulted to identify replacement components during periodic maintenance of a sanitary appliance? (1 mark)
	<p>Answers</p> <p>a) Manufacturer's instructions.</p> <p>b) British Standards.</p> <p>c) User guides.</p> <p>d) Building regulations.</p>
Spec reference	AC49.1

Q51	Which renewable system uses a loop to extract energy? (1 mark)
	<p>Answers</p> <p>a) Biomass.</p> <p>b) Solar thermal.</p> <p>c) Combined heat and power.</p> <p>d) Ground source heat pump.</p>
Spec reference	AC56.1

Q52	What is the optimum orientation for a solar thermal panel? (1 mark)
	<p>Answers</p> <p>a) West facing.</p> <p>b) North facing.</p> <p>c) East facing.</p> <p>d) South facing.</p>
Spec reference	AC57.1

Q53	What type of fuel is used in a biomass boiler? (1 mark)
	<p>Answers</p> <p>a) Timber logs.</p> <p>b) Coal.</p> <p>c) Wood chips.</p> <p>d) Peat.</p>
Spec reference	AC58.1

Q54	Which regulatory body governs the installation of solid fuel? (1 mark)
	<p>Answers</p> <p>a) CIPHE.</p> <p>b) OFTEC.</p> <p>c) HETAS.</p> <p>d) MCS.</p>
Spec reference	AC58.4

Q55	What is the equation for complete combustion of natural gas? (1 mark)
	<p>Answers</p> <p>a) $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$</p> <p>b) $2\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 4\text{H}_2\text{O}$</p> <p>c) $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 4\text{H}_2\text{O}$</p> <p>d) $2\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$</p>
Spec reference	AC59.1

Q56	What is a symptom of CO poisoning? (1 mark)
	<p>Answers</p> <p>a) Dizziness.</p> <p>b) Insomnia.</p> <p>c) Leptospirosis.</p> <p>d) Hepatitis.</p>
Spec reference	AC59.5

Q57	Which component allows products of combustion to be diluted with air? (1 mark)
	<p>Answers</p> <p>a) Primary flue.</p> <p>b) Draught diverter.</p> <p>c) Secondary flue.</p> <p>d) Terminal.</p>
Spec reference	AC60.3

Q58	What testing procedure is used to check the integrity of a chimney? (1 mark)
	<p>Answers</p> <p>a) Flue gas analysis.</p> <p>b) Spillage.</p> <p>c) Flue flow.</p> <p>d) Visual inspection.</p>
Spec reference	AC60.7

Q59	Which electrical task is a plumbing and heating engineer permitted to carry out? (1 mark)
	<p>Answers</p> <p>a) Replacing a miniature circuit breaker.</p> <p>b) Installing a new circuit to a shower.</p> <p>c) Removing a circuit to a boiler.</p> <p>d) Connecting a water heater to a fused spur.</p>
Spec reference	AC61.1

Q60	What equipment is used during the safe isolation of an electrical circuit? (1 mark)
	<p>Answers</p> <p>a) Multimeter.</p> <p>b) Ohmmeter.</p> <p>c) Voltage indicator.</p> <p>d) Voltage pen.</p>
Spec reference	AC62.1

3 9289-300 End-point Assessment – multiple-choice knowledge test (answer sheet)

Apprentice name:

Date of test: [Click or tap to enter a date.](#)

1	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
2	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
3	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
4	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
5	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
6	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
7	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
8	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
9	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
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12	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
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14	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
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16	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
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22	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
23	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>

24	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
25	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
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44	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
45	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
46	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
47	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
48	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
49	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
50	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
51	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
52	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
53	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>

54	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
55	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
56	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
57	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
58	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
59	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
60	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>

Number of correct answers: / 60

4 9289-300 End-point Assessment – multiple-choice knowledge test (mark scheme)

Grading

Fail – 35 marks

Pass – 36 marks (60%)

Distinction – 50 marks (83.33%)

Question Number	Key
1	B
2	A
3	B
4	B
5	C
6	D
7	B
8	A
9	A
10	D
11	D
12	B
13	D
14	C
15	C
16	D
17	A
18	C
19	C
20	D
21	B
22	C
23	A

Question Number	Key
24	D
25	A
26	B
27	D
28	B
29	C
30	B
31	A
32	A
33	C
34	B
35	C
36	A
37	D
38	A
39	B
40	B
41	B
42	C
43	D
44	A
45	B
46	C
47	C
48	A
49	D
50	A
51	D
52	D
53	C
54	C
55	A

Question Number	Key
56	A
57	B
58	C
59	D
60	C