

Practice Assessment Paper

Please write clearly in block capitals below	
Company Name	
Forename (s)	
Surname	
Date of Birth	
Candidate Number	
Apprentice signature	
Date of Knowledge Test	

Level: 3
Standard: Gas Network Craftsperson
Pathway: Emergency Response
Duration: 1 hour 15 minutes (75 minutes)

Materials

For this paper you must have:

- Pens and Calculators
- Reference documents are not required

Instructions

- Use black or blue ink or black ball-point pen
- Fill in the boxes at the top of this page
- Answer **all** questions
- There are questions, possible answers as well as a column for you to mark your answer

- Mark your answer with an against the possible answer you think is correct- if you wish to change your answer please put a line through and re-select with another
- Only one answer per question allowed. Answers which do not follow the rules of selection will be disallowed. This may impact on the grade awarded
- Do all rough work in this answer book, spare paper at the back of this answer book can be used but **MUST NOT** be removed
- Additional spare paper will not be provided
- All questions are closed book

Sample:

London is the capital of....

Example Question		
London is the capital of...		
Possible answers		Answer
a)	Wales	X
b)	Scotland	
c)	Northern Ireland	
d)	England	X

Information

- There are 50 questions in total
- All questions should be attempted

Grading

- ≤ 34 marks will result in a fail
- 35 - 44 marks will result in a pass
- 45 – 50 marks will result in a distinction

Advice

- You are not permitted to leave the examination room for the first 45 minutes and the last 15 minutes of the examination
- Do not spend too long on one question
- Read all questions thoroughly before starting your examination
- Mobile phones and watches must not be taken into the examination room. The examination must be conducted under examination conditions i.e. you may not speak to other candidates, if you have a problem raise your hand and the invigilator will attend
- Cheating: you will be asked to leave the examination room and will be classified an automatic fail and referred to your employer

Do not turn over the page or commence the knowledge test until the invigilator instructs you to

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DO NOT DETACH

Spare paper to use for calculations or working out

Question 01		
When should plant avoidance equipment be used?		
Possible answers		Answer
a)	Once the excavation has started	
b)	Before the surface of the ground is broken	
c)	Only when there are visible signs of plant in the ground	
d)	On completion of the works on site	

Question 02		
Gas Appliances and meters are specifically covered under which regulation?		
Possible answers		Answer
a)	Gas Safety Regulations	
b)	Pipeline Safety Regulations	
c)	Provision and Use of Work Equipment Regulations	
d)	Gas Safety (Installation and Use) Regulations	

Question 03		
What is defined by the term hazard ?		
Possible answers		Answer
a)	Anything that has the potential to cause harm	
b)	The likelihood to cause harm	
c)	The outcome of an accident	
d)	Anything that could cause offence	

Question 04		
When could asbestos be considered safe?		
Possible answers		Answer
a)	When it is damaged	
b)	When fitted to an appliance	
c)	When being removed	
d)	When undamaged and in good condition	

Question 05		
Which of the following is NOT covered under Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR)?		
Possible answers		Answer
a)	Carbon Dioxide	
b)	Propane	
c)	Natural gas	
d)	Butane	

Question 06		
You arrive on site that already has a street works' signing and barrier system in place, using your red book when must you check for compliance?		
Possible answers		Answer
a)	When you arrive and before you leave the site	
b)	From time to time throughout the day	
c)	When you arrive, before any work commences	
d)	Never as it will be set out OK	

Question 07		
What is the first priority when you encounter a gas escape?		
Possible answers		Answer
a)	Find and secure the escape	
b)	Safeguard life	
c)	Isolate the supply	
d)	Tightness test the installation	

Question 08		
When Liquefied petroleum gas (LPG) is escaping from a pipework installation, how will it disperse from the source of leakage?		
Possible answers		Answer
a)	Remain in the area it leaked from	
b)	Disperse naturally	
c)	Rise upwards	
d)	Fall and accumulate at low level	

Question 09		
Compression fittings can only be used on gas pipework in which of the following circumstances?		
Possible answers		Answer
a)	Where readily accessible	
b)	On connections to space heaters	
c)	Inside an appliance	
d)	Where soldering is not possible	

Question 10		
An open flued appliance that is operating satisfactorily should have a ventilation grill of 100cm ² area, but when measured, only has an area of 92cm ² . What would the unsafe situations classification be?		
Possible answers		Answer
a)	No classification required	
b)	AR – At Risk	
c)	NCS - Not to Current Standards	
d)	ID - Immediately Dangerous	

Question 11		
What is the difference between a pedestrian barrier and a traffic barrier?		
Possible answers		Answer
a)	A pedestrian barrier is 1 metre high and a traffic barrier is 1.2m high	
b)	A pedestrian barrier has a tapping rail	
c)	Traffic barriers must be joined together, pedestrian barriers do not	
d)	A traffic barrier has a 150mm visibility panel a pedestrian barrier does not	

Question 12		
Where a gas supply has been turned off as a result of a known gas escape, who can reinstate the supply?		
Possible answers		Answer
a)	The responsible person on site	
b)	The gas supplier or their agent	
c)	The gas transporter or their agent	
d)	No person until the escape has been repaired	

Question 13		
What is the maximum barhole depth for a footway?		
Possible answers		Answer
a)	380mm	
b)	200mm	
c)	250mm	
d)	300mm	

Question 14		
A Dry Powder fire extinguisher has what colour band?		
Possible answers		Answer
a)	Blue	
b)	Red	
c)	Black	
d)	Cream	

Question 15		
Where electrical equipment is to be used in hazardous areas , under which directive must the equipment be certified?		
Possible answers		Answer
a)	PUWER	
b)	LOLER	
c)	ATEX	
d)	DSEAR	

Question 16		
When removing an asbestos gasket , what is the minimum specification of the dust mask being used?		
Possible answers		Answer
a)	FFP1	
b)	FFP2	
c)	FFP3	
d)	FFP4	

Question 17		
Thinking about the 5 steps to risk assessment . Which of the following is the correct order?		
Possible answers		Answer
a)	<ol style="list-style-type: none"> 1. Identify hazards 2. Assess the risk 3. Who might be harmed? 4. Record findings 5. Review 	
b)	<ol style="list-style-type: none"> 1. Who might be harmed? 2. Assess the risk 3. Identify hazards 4. Record findings 5. Review 	
c)	<ol style="list-style-type: none"> 1. Identify hazards 2. Who might be harmed 3. Assess the risk 4. Record findings 5. Review 	
d)	<ol style="list-style-type: none"> 1. Assess the risk 2. Identify hazards 3. Who might be harmed 4. Record findings 5. Review 	

Question 18		
The gas safety regulations, regulation 3 states that no person shall carry out any work in relation to a gas fitting or gas storage vessel unless they are:		
Possible answers		Answer
a)	Over 18 years of age	
b)	Certificated	
c)	Working for a company registered with Gas Safe Register	
d)	Competent	

Question 19		
What is the permissible pressure drop over a 2 minute period, on an existing installation with appliances connected, E6 ultra sonic meter, 22mm tube, no reported smell of gas?		
Possible answers		Answer
a)	0mbar	
b)	1mbar	
c)	4mbar	
d)	8mbar	

Question 20		
What must the Gas Safe registered person do where an immediately dangerous situation is encountered?		
Possible answers		Answer
a)	Disconnect the appliance and label it	
b)	With permission of the responsible person, disconnect and seal the appliance, and attach a danger do not use warning label	
c)	Turn off the appliance and apply a warning label	
d)	With permission of the responsible person, disconnect and seal the appliance, and attach a must not use warning label	

Question 21		
Which statement is TRUE ?		
Possible answers		Answer
a)	Plant avoidance equipment will locate all metallic pipes and cables	
b)	Plant avoidance equipment will locate all underground plant	
c)	Plant avoidance equipment will locate all pipes and cables	
d)	Plant avoidance equipment will locate most metallic pipes and cables	

Question 22		
When natural gas is escaping from a pipework installation, how will it disperse from the source of leakage?		
Possible answers		Answer
a)	Fall	
b)	Remain in the area it leaked from	
c)	Disperse naturally	
d)	Rise upwards	

Question 23		
Where a gas escape has been brought under control by turning off the emergency control valve, what other action could be taken to remove any concentrations of gas?		
Possible answers		Answer
a)	Opens doors and windows to ventilate the property	
b)	Turn on extractor fans to remove the gas	
c)	Open the taps on your gas appliances	
d)	Close all doors and windows	

Question 24		
In a workplace who is responsible for maintaining health and safety?		
Possible answers		Answer
a)	Health and Safety Executive	
b)	Employer	
c)	Everyone except contractors	
d)	Everyone	

Question 25		
Identify which of the following tells you that a chemical is hazardous :		
Possible answers		Answer
a)	The shape and colour of the container	
b)	The way it looks and smells when you empty it from the container	
c)	A symbol on the container label and the material data sheet	
d)	The chemical name or trade name	

Question 26		
Which of the following regulations place a responsibility on organisations for the reporting of safety related incidents ?		
Possible answers		Answer
a)	Provision and use of working equipment	
b)	Reporting of Injuries, Diseases and Dangerous Occurrences Regulations	
c)	Confined Spaces Regulations	
d)	Gas Safety Management Regulations	

Question 27		
Prior to using any the tool, the tool should be checked:		
Possible answers		Answer
a)	for its general condition	
b)	that it can be used by anyone on site	
c)	that it is safe to use and in a serviceable condition	
d)	suitable PPE labels are shown	

Question 28		
Gas meters must not be installed within what distance of electrical meters or apparatus?		
Possible answers		Answer
a)	25mm	
b)	50mm	
c)	100mm	
d)	150mm	

Question 29		
When visually inspecting gas appliances which one of the following should be included, when the gas supply has been interrupted following a meter exchange?		
Possible answers		Answer
a)	All consumer appliance controls are checked for safe and correct operation	
b)	All flame supervision devices are tested	
c)	The correct operation of any ASD is confirmed	
d)	The working pressure of each appliance is recorded	

Question 30		
What must you do before using a blowlamp on domestic gas pipework that contains or has contained gas?		
Possible answers		Answer
a)	Isolate the gas supply and ventilate	
b)	Isolate the supply and disconnect from the meter with the ends plugged or capped	
c)	Isolate the gas supply and with ends capped or plugged purge with air	
d)	Turn off the gas supply	

Question 31		
What is the gas concentration level at which evacuation of a property should take place?		
Possible answers		Answer
a)	5% LEL or above	
b)	20% GIA or below	
c)	5% GIA	
d)	20%LEL or above	

Question 32		
What must be considered when investigating a gas escape inside a terraced property?		
Possible answers		Answer
a)	Focus the search on the property where the escape was reported	
b)	Gas could be entering from the adjoining properties	
c)	Check the cellar for the presence of gas	
d)	Completion of NO access checks on adjoining property	

Question 33		
How should any pipework between the primary meter regulator and the Emergency Control Valve (ECV) be tested?		
Possible answers		Answer
a)	With a manometer	
b)	With an electronic gauge	
c)	With soap solution	
d)	With approved leak detection fluid	

Question 34		
Which of the following would be deemed an immediately dangerous situation?		
Possible answers		Answer
a)	Gas fire fitted on a carpet with signs of scorching	
b)	Balanced flue appliance with no terminal guard	
c)	Cooker without a safety chain	
d)	Spillage of products of combustion	

Question 35		
In the hierarchy of risk control which of the following is the lowest?		
Possible answers		Answer
a)	PPE	
b)	Reduce	
c)	Isolate	
d)	Eliminate	

Question 36		
Under the Health & Safety at Work Act (1974) the employee has a duty to:		
Possible answers		Answer
a)	Read notice boards or bulletins	
b)	Maintain a safe working environment	
c)	Always follow direction from supervisors and management	
d)	Complete jobs to time and price	

Question 37		
When moving and or lifting items, the first option requested by the Manual Handling Operations Regulations 1992 is to:		
Possible answers		Answer
a)	use more than one person	
b)	use mechanical lifting equipment if practicable	
c)	test the load to see if one person can move it	
d)	avoid manual lifting and handling	

Question 38		
Which of one the following best defines a confined space?		
Possible answers		Answer
a)	Any space which by virtue of its enclosed nature there arises a risk	
b)	Any enclosed space as indicated by a risk assessment	
c)	Any space with an access opening less than 450mm x 400mm	
d)	Any space which by its enclosed nature, there arises a reasonably foreseeable specified risk	

Question 39		
When visually inspecting a radiant convector space heater, which one of the following checks should be included:		
Possible answers		Answer
a)	That the heat exchanger is not corroded or cracked	
b)	That the radiants are clean and white	
c)	That the flame picture is blue, vibrant and stable	
d)	That the primary air port and injector are not restricted	

Question 40		
On a medium pressure meter installation in a meter box, how must the downstream pipework be configured?		
Possible answers		Answer
a)	It must exit the housing before entering the property	
b)	Exiting through the spigot	
c)	It must exit at the side of the box	
d)	Exiting through the rear of the meter box	

Question 41		
Which of one the following is NOT a classification used under the seventh edition of the gas industry unsafe situations procedures?		
Possible answers		Answer
a)	AR - classification where turning off the supply will not remove the risk	
b)	NCS - Not to Current Standards	
c)	ID – Immediately Dangerous	
d)	AR – at risk	

Question 42		
A gas escape is reported outside of a property, upon arrival on site what should the person attending the escape attempt to do as their first priority ?		
Possible answers		Answer
a)	Carry out a full external site investigation	
b)	Find and secure the gas escape	
c)	Turn off all visible gas supplies	
d)	Access the property where the escape was reported	

Question 43		
You cannot gain access to a property, but you have a 18% LEL reading through a letterbox, what actions must you consider?		
Possible answers		Answer
a)	Gaining immediate entry	
b)	Leave a no access card and plan a revisit	
c)	Attempt to ventilate the property	
d)	A full survey of the property	

Question 44		
Following the evacuation of a property due to the presence of natural gas, at what gas level could the building be re-occupied?		
Possible answers		Answer
a)	5% LEL and falling	
b)	20% LEL and falling	
c)	Below 20% LEL and falling	
d)	Below 5% LEL and falling	

Question 45		
Where Carbon Monoxide is suspected or detected in a building, what should your onsite priority action be?		
Possible answers		Answer
a)	Disconnect all gas burning appliances	
b)	Isolate the gas supply and ventilate the property	
c)	Complete a full survey of the property	
d)	Visually inspect all appliances	

Question 46		
The re-occupation criteria require how many consecutive readings to be taken and at what minimum time interval ?		
Possible answers		Answer
a)	2 readings, 10 minutes apart	
b)	3 readings, 10 minutes apart	
c)	3 readings, 15 minutes apart	
d)	5 readings, 15 minutes apart	

Question 47		
What does a yellow and black sign mean?		
Possible answers		Answer
a)	Safe condition	
b)	You must do something – mandatory requirement	
c)	You must not do anything	
d)	Hazard or danger	

Question 48		
What is the purpose of a risk assessment ?		
Possible answers		Answer
a)	Ensure work can be carried out in reasonable safety	
b)	Identify hazards and risks	
c)	Ensure tasks are done in the correct order	
d)	Protect the employer/employee from prosecution	

Question 49		
What is the permissible pressure drop over a 2 minute period, on an existing installation with appliances connected, U16 meter, 28mm tube, no reported smell of gas?		
Possible answers		Answer
a)	0mbar	
b)	1mbar	
c)	8mbar	
d)	4mbar	

Question 50		
When checking the operating pressure at a property what should be used to do this?		
Possible answers		Answer
a)	All appliances must be operating	
b)	Three rings on a cooker hotplate	
c)	Four rings on a cooker hotplate	
d)	The largest gas burning appliance	

Gas Network Craftsperson Electrical and Instrumentation

Practice Knowledge Assessment

Answer scheme

Question	Answer	Question	Answer
1	B	26	B
2	D	27	C
3	A	28	D
4	D	29	A
5	A	30	B
6	A	31	D
7	B	32	B
8	D	33	D
9	A	34	D
10	A	35	A
11	B	36	B
12	D	37	D
13	B	38	D
14	A	39	C
15	C	40	A

16	C	41	B
17	A	42	D
18	D	43	A
19	D	44	D
20	B	45	B
21	D	46	C
22	D	47	D
23	A	48	A
24	D	49	B
25	C	50	D