

Practice Assessment Paper

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

Level:	3
Standard:	Gas Network Craftsperson
Pathway:	Pipeline Maintenance
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 correctif 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....

Exa	Example Question			
Lond	London is the capital of			
Poss	Possible answers Answer			
a)	Wales	×		
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 for to use for calculations or working out

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Que	Question 01		
Wha	What is defined by the term hazard ?		
Poss	ible answers	Answer	
a)	Anything that could cause offence		
b)	The likelihood to cause harm		
c)	The outcome of an accident		
d)	Anything that has the potential to cause harm		

Que	Question 02	
When could asbestos be considered as safe?		
Pos	sible answers	Answer
a)	When it is damaged	
b)	When undamaged and in good condition	
c)	When being removed	
d)	When fitted to an appliance	

Que	Question 03		
You	You are using a piece of equipment and it leaks oil on to the ground. What must you do?		
Poss	sible answers	Answer	
a)	Contain the leak, clean it up and report it		
b)	Ignore it		
c)	Wash it away with water		
d)	Just wipe it up		



Ques	Question 04		
What	What does this symbol mean?		
Possible answers Answer		Answer	
a)	Hearing protection should be worn		
b)	Hearing protection must be worn		
c)	Hearing protection is required		
d)	Hearing protection is not required		

What does this **Control of Substances Hazardous to health Regulations** (**COSHH**) symbol mean?



Poss	Possible answers	
a)	Harmful	
b)	Oxidising	
c)	Toxic	
d)	Flammable	



Ques	Question 06		
Prior it:	Prior to using any tool or equipment, the operator of the tool must check and confirm that		
	ible answers	Answer	
a)	is intrinsically safe and suitable for the task		
b)	is safe to use and suitable for the task		
c)	has all appropriate certification labels		
d)	is supplied by the employee or a hire company		

Ques	Question 07		
A pie	ce of equipment has the following markings on the case:	-51-51-51	
C	E 🖾 II 2 G Ex d IIC T4	Gb	
	does this mean? ible answers	Answer	
a)	It is approved under the PPE regulations		
b)	It meets the requirements of RIDDOR		
c)	It is ATEX certified		
d)	It meets the requirements of the PUWER regulations		

Que	Question 08		
The	The purpose of risk assessment is to:		
Poss	sible answers	Answer	
a)	ensure work can be carried out in reasonable safety		
b)	fully meet the requirements of the CDM regulations		
c)	ensure tasks are done in the correct order		
d)	protect employer and employee from prosecution		



Question 09		
When operating any equipment that creates dust, what must be used to prevent damage to the lungs?		
Poss	Possible answers Answer	
a)	A dust mask	
b)	A full-face mask	
c)	Suitable respiratory protective equipment	
d)	Dust suppression system	

Question 10		
When moving and lifting items , what is the first option required by the Manual Handling Operations Regulations 1992?		
Poss	Possible answers Answer	
a)	To use more than one person	
b)	To test the load to see if one person can move it	
c)	To test the load to see if two people can move it	
d)	To use mechanical lifting equipment where ever possible	

Question 11		
You are planning to carry out work at height, when would the use of leaning ladders be considered a suitable option?		
Possible answers Answer		Answer
a)	Where the work area cannot be reached from a fixed scaffold	
b)	Where the work activity is low risk and short duration	
c)	Where it is the most cost effective solution	
d)	Where work will take between 30 minutes to an hour to complete	



Ques	Question 12		
Where peoples' safety is put at risk from fire, explosion and corrosion of metal. Which regulation puts duties on employers and the self-employed to protect people from these risks?			
Possible answers Answer		Answer	
a)	Gas Safety (Management) Regulations		
b)	Pipeline Safety Regulations		
c)	Dangerous Substances and Explosive Atmospheres Regulations		
d)	Pressure Systems Safety Regulations		

Ques	Question 13	
Under the gas safety management regulations , which of the following duties are placed on gas transporters?		
Poss	Possible answers Answer	
a)	To minimise the risk of a gas supply emergency	
b)	To protect people from fire and explosion	
c)	To design and safely operate pipelines	
d)	To prevent major accidents involving dangerous substances	

Ques	Question 14		
You are involved in a flow stopping operation and you have an accidental equipment failure that results in the loss of more than 500Kg of natural gas leakage. Under which regulation must this be reported?			
Poss	ible answers	Answer	
a)	DSEAR		
b)	RIDDOR		
c)	СОМАН		
d)	PUWER		



Ques	Question 15		
As part of your work you are required to enter a deep excavation which due to leakage on a gas pipeline, the risk of an explosive atmosphere exists. In order to enter this excavation, the requirements of which regulation must be met?			
Poss	ible answers	Answer	
a)	Confined Spaces Regulations		
b)	Construction Design and Management Regulations		
c)	Dangerous Substances and Explosive Atmospheres Regulations		
d)	Gas Safety (Management) Regulations		

Question 16		
According to the health and safety at work act, who is responsible for maintaining health and safety?		
Possible answers Answer		
a)	Employees	
b)	Employers	
c)	Everyone	
d)	The HSE	

Ques	Question 17		
For person working on gas pipelines, when do the Construction (Design and Management) regulations apply?			
Possible answers Answer		Answer	
a)	At all times		
b)	When notification is required to the HSE		
c)	On projects of more that 50 days in length		
d)	Where projects exceed 300 person days		



Question 18		
The rights of access to carry out maintenance and refurbishment work are contained within which agreement with the landowner?		
Possible answers Answer		Answer
a)	Rights of access agreements	
b)	Wayleaves or easements	
c)	Pipeline safety regulations	
d)	Gas safety management regulations	

Que	Question 19		
Prior to any excavation work commencing, what activity must be completed on site?			
Pos	Possible answers Answer		
a)	A hazard assessment		
b)	Location and identification of any below ground apparatus		
c)	Site protection through the use of HERAS fencing		
d)	A visual inspection		

Question 20		
Where your work encroaches on to a road or footway, what must be installed on the site to protect both the workers and members of the public?		
Possible answers Answer		Answer
a)	Signs, cones and barriers	
b)	Traffic control systems	
c)	Suitable safety measures in line with codes of practice	
d)	A suitable signing, lighting and guarding system	



Question 21		
What diameter bag off tube should be used on a mains diameter measuring between 14"-18"?		
Possible answers Answer		
a)	3"	
b)	4"	
c)	5"	
d)	6"	

Ques	Question 22		
What specific safety training would be required for any technician to be able to carry out cold cutting?			
Poss	Possible answers Answer		
a)	PUWER		
b)	Permits to work		
c)	Abrasive Wheels		
d)	Hot works		

Ques	Question 23	
What is the pre-test pressure for both primary and secondary bags of diameter 18" (450mm)?		
Poss	Possible answers Answer	
a)	75mbar	
b)	125mbar	
c)	150mbar	
d)	175mbar	



When preparing to squeeze off a PE pipe with a peelable sleeve, how much of the peelable sleeve be removed from either side of the squeeze-off bar?

Possible answers		Answer
a)	0.25 x Pipe diameter	
b)	0.5 x Pipe diameter	
c)	0.75 x Pipe diameter	
d)	1.0 x Pipe diameter	

Ques	Question 25	
When using a cold cutting tool, which corrosion prevention method could lead to sparking if a temporary continuity bond was not used?		
Poss	Possible answers Answer	
a)	Wrapping	
b)	Painting	
c)	Cathodic protection	
d)	Insulation joints	

Question 26

When you have completed a flow stop operation on a plastic-coated steel pipeline, the pipeline is now fully recommissioned, what must be applied before the pipeline can be back filled?

Poss	ible answers	Answer
a)	Sacrificial anodes	
b)	A wind and water line wrap	
c)	Painting to the required standard	
d)	Suitable corrosion protection	



Under pressure drilling requires a leakage test to be applied prior to the drilling commencing. What are the **test times** and **permitted leakage** when undertaking this test?

Poss	Possible answers	
a)	20 minutes stabilisation, 20 minutes test – no pressure drop	
b)	15 minutes stabilisation, 15 minutes test – no pressure drop	
c)	10 minutes stabilisation, 10 minutes test – no pressure drop	
d)	5 minutes stabilisation, 15 minutes test – no pressure drop	

Ques	Question 28	
When completing a hydrostatic test , what effect would any pockets of trapped air or gas have on the test?		
Poss	Possible answers Answer	
a)	An unpredictable build-up of pressure	
b)	An increase in pressure if the pipe was suddenly heated	
c)	A risk of high pressure air being released	
d)	An unstable pressure build up and inaccurate test	

Ques	Question 29		
Nitrogen gas can be used for pressure and leak testing but due to its asphyxiating nature this must be carried out only under which circumstance?			
Poss	Possible answers Answer		
a)	In confined spaces		
b)	Low volume tests		
c)	Large volume tests		
d)	Where a permit to work is in place		



Ques	Question 30		
You are working on a gas distribution operational site Above Ground Installations (AGI), who on this site will control any permit to work requirements?			
Poss	ssible answers Answer		
a)	The local manager		
b)	The site technician		
c)	The competent person		
d)	The authorising engineer		

Ques	Question 31		
You are working on a gas operational site, what must you ensure you do every day?			
Possible answers Answer			
a)	Log on and off site		
b)	Contact the Authorising Engineer		
c)	Contact your line manager		
d)	Request a permit to work		

You arrive at an operational site and the following sign is displayed at the entrance to the site



What	What does this mean?		
Poss	Possible answers		
a)	Warning - Explosive atmosphere		
b)	ATEX certified equipment only		
c)	Warning - Explosive gas		
d)	DSEAR regulations apply		



Ques	Question 33	
Following a successful hydrostatic test on an existing exposed pipeline, what should you also check for?		
Possible answers Answer		Answer
a)	Condition of corrosion protection measures	
b)	Any minor defects that could grow in time	
c)	The safe operation of any protective devices	
d)	Damage sustained to tools and equipment	

Que	Question 34		
Ariel	Ariel, vantage point and line walk are all what type of pipeline protection technique:		
Pos	Possible answers Answer		
a)	PSSR inspection		
b)	Risk prioritisation survey		
c)	Pipeline safety inspection		
d)	Route Survey		

Ques	Question 35		
	What could be the consequence of selecting and applying a squeeze-off SDR stop that is too small for the diameter of pipe being squeezed off?		
Poss	ible answers	Answer	
a)	The squeeze off would not seal properly		
b)	Excessive stress on the pipeline that could lead to failure		
c)	A longer re-rounding period would be required		
d)	There will be minimal effect unless SDR 17.6 was selected		



Question 36		
Where a pipeline is damaged, who must this be reported to?		
Poss	ible answers	Answer
a)	The pipeline owner	
b)	The pipeline operator	
c)	The local gas distribution network	
d)	0800 111999	

Ques	Question 37	
Where a pipeline has been damaged, without any gas loss what action must be undertaken?		
Poss	sible answers Answer	
a)	The section must be replaced	
b)	The integrity of the pipe must be confirmed	
c)	The extent of the damage must be assessed	
d)	The pressure of the pipeline must be reduced	

Ques	Question 38	
You have started an under-pressure drilling operation and gas has started to leak from the drill being used. What should your action be?		
Poss	sible answers Answer	
a)	Close the valve	
b)	Effect a repair on the drill	
c)	Retract the drill and close the valve	
d)	Continue with the operation	



Ques	Question 39		
Why is it important to brace the cap and gland assembly during CCTV Surveys?			
Poss	ble answers	Answer	
a)	To prevent the cap moving		
b)	To prevent the cap coming off and releasing gas		
c)	The prevent the cap from staying on		
d)	To prevent the survey being delayed		

Ques	Question 40	
When working on a stopple operation on a high pressure main, which procedure is applicable?		
a)	Form of authority	
b)	Hot works permit	
c)	Routine Operation	
d)	Non- Routine Operation	

Ques	Question 41	
	What checks must be undertaken when selecting the plugging head for a tapping operation?	
Poss	ible answers	Answer
a)	The head must be larger than the internal pipeline dimension	
b)	Nose piece must correspond to the pipeline external dimensions	
c)	The head must be larger than the jackscrew diameter	
d)	Nose piece must correspond to the pipeline internal dimensions	



Question 42		
Any equipment to be used on a high pressure system should comply with the requirements of which regulation ?		
Poss	ible answers	Answer
a)	Gas Safety (Management) Regulations	
b)	Pipeline Safety Regulations	
c)	Dangerous Substances and Explosive Atmospheres Regulations	
d)	Pressure Systems Safety Regulations	

Question 43		
When attending a confirmed gas emergency, what are the priority actions on site?		
Possible answers Answer		
a)	Risk assessment	
b)	Safeguard Life and Property	
c)	Secure the escape and property	
d)	Set up an exclusion zone	

Question 44		
What is the minimum distance that a 2 inch TOR equalisation point fitting can be installed from the Stopple Tee?		
Poss	Possible answers Answer	
a)	1 x the nominal diameter	
b)	2 x the nominal diameter	
c)	3 x the nominal diameter	
d)	4 x the nominal diameter	



Question 45		
What are the implications of the torque setting for a guide chain being exceeded?		
Poss	Possible answers Answer	
a)	Steel pipe could be distorted	
b)	Cast iron pipe could crack	
c)	The chain will snap	
d)	The chain will stretch	

Question 46			
During flange completion, how many threads as a minimum should be protruding from the nut face after final tightening?			
Possible answers Answe			
a)	1		
b)	1.5		
c)	2		
d)	2.5		

Ques	Question 47		
What would indicate that the sealant packings on a small bore drill are not sealing?			
Poss	Possible answers Answer		
a)	An increase in gas pressure in the drill housing		
b)	Gas would leak out from the body of the drill		
c)	There would be no noticeable effect		
d)	There would be a greater resistance encountered due to the pressure		



Question 48			
When must the threads of a TOR plug be checked?			
Possible answers Answer			
a)	On completion of the drilling as the TOR is fitted		
b)	Before the drilling operation commences		
c)	Before the blank flange is fitted		
d)	Before the drilling valve is fitted		

Question 49			
What is the difference between a standard cutter and a stopple cutter?			
Possible answers Answer			
a)	The standard cutter is larger than a Stopple cutter for the same nominal size		
b)	The standard cutter is smaller than a Stopple cutter for the same nominal size		
c)	The standard cutter is the same as the Stopple cutter for the same nominal size		
d)	The standard cutter is the same as the Stopple cutter for different nominal sizes		

Question 50			
In terms of isolation, which one of the following would provide a double block and bleed?			
Possible answers A			
a)	Plug Valve		
b)	Ball Valve		
c)	Butterfly valve		
d)	Gate valve		



Gas Network Craftsperson Network Pipeline Maintenance Craftsperson

Practice Knowledge Assessment

Answer scheme

Question	Answer	Question	Answer
1	D	26	D
2	В	27	В
3	A	28	D
4	В	29	В
5	С	30	С
6	В	31	A
7	С	32	A
8	А	33	В
9	С	34	D
10	D	35	В
11	В	36	В
12	С	37	С
13	A	38	С
14	В	39	В
15	А	40	D
16	С	41	D

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17	A	42	D
18	В	43	В
19	В	44	В
20	D	45	В
21	В	46	С
22	С	47	В
23	D	48	D
24	В	49	В
25	С	50	В