MOET Practice Assessment

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

Level:	3		
Standard:	Maintenance and Operations		
	Engineering Technician		
Pathway:	Mechanical Practice Assessment		
Duration:	45 minute	tes	

Materials

For this paper you must have:

- Pens
- Calculators and 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 X

- 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 is provided in this answer booklet and 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				
Lond	London is the capital of			
Poss	sible answers		Answer	
a)	Wales		×	
b)	Scotland			
c)	Northern Ireland			
d)	England		X	

Information

- There are 30 questions in total
- All questions should be attempted

Advice

- You are not permitted to leave the examination room for the duration of the assessment
- 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

(A) First principles relating to the operation and maintenance of appropriate plant and equipment (7 Questions)

Question 01			
On w	hat type of installation would you	ı fit this desi	gn of washer?
Poss	ible answers	Answer	
a)	High corrosion		
b)	High temperature		
c)	High vibration		
d)	High pressure		

Question 02

The maximum and/or minimum values that are permitted for specific maintenance operations are commonly described as:

Possible answers		Answer
a)	Factors of safety	
b)	Rules of thumb	
c)	Margins	
d)	Tolerances	

Ques	Question 03		
Whic	Which statement is correct? Safety critical equipment should be maintained		
Poss	Possible answers Answer		
a)	safety critical equipment does not need testing		
b)	more frequently that non safety critical equipment		
c)	less frequently that non safety critical equipment		
d)	at the same period as safety non-critical equipment		

Which statement best describes what is meant by the terminology "specification"?

Poss	ible answers	Answer
a)	The capacity to endure continuous force	
b)	The standard when measured against another object of similar design	
c)	Detailed description of the design and materials of an object	
d)	The specified point beyond which certification is invalid	

Ques	Question 05			
What	What type of maintenance is applied when something stops working?			
Poss	ible answers		Answer	
a)	Planned			
b)	Preventative			
c)	Corrective			
d)	Shutdown			

What do the initials IP followed by 2 numbers refer to when seen on a piece of equipment:

Poss	ible answers	Answer
a)	Internal pressure	
b)	Integrity protection	
c)	Ingress protection	
d)	Increased pressure	

Question 07

Which of the following is commonly classed as safety critical?

Poss	ible answers	Answer
a)	Control valve	
b)	Fuse	
c)	Steam trap	
d)	Drain valve	

Ques	Question 08			
What	What does the coloured tag on a piece of rigging equipment mean?			
Poss	Possible answers Answer			
a)	Certification period			
b)	Safe working load			
c)	Maximum working load			
d)	Safe to use			

Ques	Question 09		
Wher	When seen on site, what does a green safety sign signify?		
Poss	Possible answers Answer		
a)	Mandatory		
b)	Prohibited		
c)	Information		
d)	Warning		

	Ques	estion 10				
١	What	document should be fixed to a scaff	old before you use it?			
I	Poss	ible answers	Answer			
	a)	Risk assessment				
	b)	Safety certificate				
	c)	Approved Scafftag				
	d)	Permit to work				

Looking at the image provided and taking into consideration risk, which task would you say is low probability and low in impact?

Poss	ible answers	Answer	A	В
a)	A		č	
b)	В		С	D
c)	С			Of the second se
d)	D		1000000	

When personal protection equipment is identified on the work control document, which of the following statements is correct?

Poss	ible answers	Answer
a)	PPE is recommended	
b)	PPE is advised	
c)	PPE is good practice	
d)	PPE is mandatory	

Question 13

In accordance with HSE regulations, how would you know if a substance was regarded as hazardous?

Poss	ible answers	Answer
a)	The container will be coloured red	
b)	It will be contained in a glass recep <mark>tacle</mark>	
c)	It will have a label identifying the hazard	
d)	It will give off a strong odour	

Ques	Question 14			
	According to the Confined Space Regulations 1997, which of the following locations is not regarded as a confined space?			
Poss	Possible answers Answer			
a)	Storage tank			
b)	Termination cabinet			
c)	Floor void			
d)	Pipe trench			

Question 15				
In accordance with HSE guidelines, isolations can only be applied by				
Possible answers			Answer	
a)	Lead technicians			
b)	Training and authorised people			
c)	skilled people			
d)	experienced people			

Ques	Question 16			
Whick	Which of the following manual handling statements is true?			
Poss	Possible answers Answer			
a)	Correct manual handling prevents all accidents			
b)	Correct manual handling prevents damage to equipment			
c)	Correct manual handling reduces the risk of human injury			
d)	Correct manual handling should only be applied in the workplace			

(C) Maintenance and operational practices, processes and procedures covering a range of plant and equipment (5 Questions)

Question 17

Using the half split principal and referring to the information provided in the image, at which position should you logically make the next check when fault finding?



Ques	Question 18			
What	What regulation provides guidance on the use of handheld tools?			
Poss	Possible answers Answer			
a)	PUWER			
b)	СОМАН			
c)	LOLER			
d)	СОЅНН			

What is being measured in this image?



Poss	ible answers	Answer
a)	Temperature	
b)	Vibration	
c)	Pressure	
d)	Speed	

When seen on a British Standard convention drawing, what does this symbol represent?



Poss	ible answers	Answer
a)	Electrical signal	
b)	Pneumatic line	
c)	Hydraulic line	
d)	Instrument signal	

Question 21

What type of maintenance can be applied to check the long-term performance of equipment to identify problems before they occur?

Poss	ible answers	Answer
a)	Preventative maintenance	
b)	Risk based maintenance	
c)	Condition based maintenance	
d)	Corrective maintenance	

(D) The relevant engineering theories and principles relative to their occupation (9 Questions)

Question 22

Which of the following is a type of misalignment?

Possible answers Answer		Answer
a)	Centrifugal	
b)	Angular	
c)	Centripetal	
d)	Rotary	

Question 23				
Which of the following items are used to assist sealing pressure leakage between the pump impeller and casing?				
Poss	Possible answers Answer			
a)	Wear rings			
b)	Thrust bearing			
c)	Radial bearing			
d)	Bearing housing			

Question 24			
What would be a typical sign that a filter was starting to become blocked?			
Poss	Possible answers Answer		
a)	Static differential pressure		
b)	Increase in differential pressure		
c)	High vibration		
d)	Zero differential pressure		

Ques	Question 25				
When fitting graphite gland packing rings into a valve shaft stuffing box, which statement is correct?					
Poss	ible answers	Answer			
a)	Ensure that the gap in the packing rings are lined up				
b)	Always apply grease to the packing before fitting				
c)	Ensure that the gap in the packing <mark>is set 90° to the</mark> last ring				
d)	Ensure that the gap in the packing is set 180° to the last ring				

Question 26					
What	What type of valve is shown in the image?				
Poss	ible answers	Answer	S. S		
a)	Butterfly				
b)	Globe				
c)	Gate				
d)	Ball				

Gap clearance should be checked using which of the following items?

Possible answers			Answer
a)	Micrometre		
b)	Feeler gauge		
c)	Dial test indicator		
d)	Shims		

Question 28

What type of filter would you find in this device?

Possible answers		Answer	
a)	Sock		
b)	Mesh		
c)	Media		
d)	Carbon		

Following recommended bolt tightening procedures and assuming that you have already tightened bolts A, E & C what would be the next bolt you would tighten?

Poss	ible answers	Answer	HA
a)	Н		G
b)	D		
c)	В		F C C
d)	G		E D

Question 30

What device should be used to assist when positioning and aligning mounting bolt holes?

Poss	ible answers	Answer	
a)	Heavy duty screwdriver		
b)	Long bolts		
c)	Steel tube		
d)	Podger bar		

End of Practice Assessment

Answers

Question	Answer	Question	Answer
1	С	16	С
2	D	17	С
3	В	18	A
4	С	19	В
5	С	20	В
6	С	21	С
7	В	22	В
8	A	23	A
9	С	24	В
10	С	25	С
11	A	26	D
12	D	27	В
13	С	28	В
14	В	29	D
15	В	30	D