

Question and Answer Sheet

MOET – Plant Operation Technician Practice Paper

Time Allowed: 45 minutes

Company:

First Name: Surname:

Date of birth: Candidate No:

You will need: a pen, a scientific calculator is permitted, any additional tables or diagrams will be provided by the EUIAS.

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.

You are not permitted to leave the examination room for the first 15 minutes and the last 15 minutes of the examination.

Cheating: you will be asked to leave the examination room and will be classified an automatic fail and referred to your employer.

Instructions:

You will see that there are questions, possible answers as well as a column for you to mark your answer. Please put an **X** against the possible answer you think is correct.

If you wish to change your answer, please put a line through the X and re-select.

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.



Please turn over to see an example	Plea	ase turn	over to	see an	example
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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	х	

Do not commence the knowledge test until the invigilator tells you to.



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

Ques	Question 01				
On w	On what type of installation would you fit this design 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 what?

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

Ques	tion 03	
Which statement is correct? Safety critical equipment should be maintained		
Poss	ible 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	



Ques	tion 04	
Which statement best describes what is meant by the terminology "specification"?		
Possible 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	

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

Ques	tion 06		
	When seen a piece of equipment what do the initials IP followed by 2 numbers refer to?		
Poss	ible answers	Answer	
a)	Internal pressure		
b)	Integrity protection		
c)	Ingress protection		
d)	Increased pressure		



Question 07		
Which	Which of the following is commonly classed as safety critical?	
Possible answers		Answer
a)	Control valve	
b)	Fuse	
c)	Steam trap	
d)	Drain valve	

(B) Relevant industry health and safety standards, regulations, and environmental and regulatory requirements (9 Questions)

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

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



Question 10		
What document should be fixed to a scaffold before you use it?		
Possible answers		Answer
a)	Risk assessment	
b)	Safety certificate	
c)	Approved Scafftag	
d)	Permit to work	

Question 11

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	Α	В
a)	A	X		
b)	В		С	D
c)	С			9
d)	D			Λ

Question 12

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	



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Qu	estio	ท 1	3

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 receptacle	
c)	It will have a label identifying the hazard	
d)	It will give off a strong odour	

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

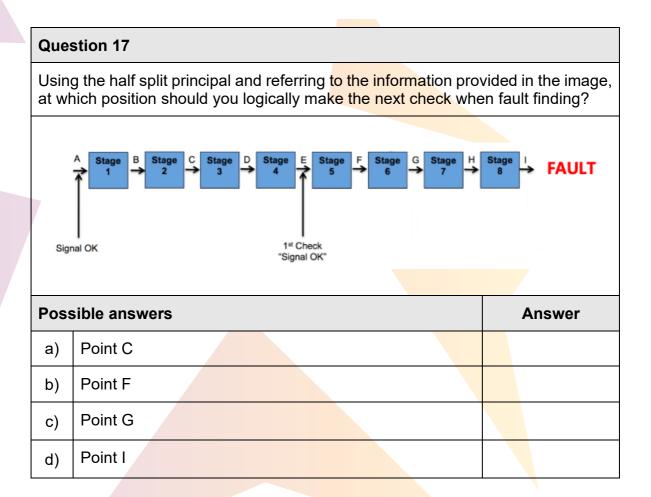
In accordance with HSE guidelines, isolations can only be applied by

Poss	ible answers	Answer
a)	Lead technicians	
b)	Training and authorised people	
c)	skilled people	
d)	experienced people	



Ques	tion 16	
Whicl	n of the following manual handling statements is true?	
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)





Ques	tion 18	
What	regulation provides guidance on the use of handheld tools	s?
Poss	ible answers	Answer
a)	PUWER	
b)	СОМАН	
c)	LOLER	
d)	COSHH	

Question 19

What is being measured in this image?



Possible answers		Answer
a)	Temperature	
b)	Vibration	
c)	Pressure	
d)	Speed	



Ques	tion 20	
	n seen on a British Standard convention drawing, what doesent?	es this symbol
	"" "" ""	
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-teri	m performano

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

d)

Mixing

What	What service does this device apply to process fluids?				
Poss	ible answers		Answer		
a)	Pressure drop				
b)	Filtration				
c)	Temperature exchange				



Q	uestion	23
•	acoulon	

What operating principal does this instrument use to measure the rate of flow?



Possible answers			Answer
a)	Differential pressure		
b)	Speed of flight		
c)	Venturi effect		
d)	Bourdon tube		

Question 24

The terminology LO/LC is often used when applying which set of procedures?

Poss	ible answers	Answer
a)	Inhibit/override	
b)	Isolation	
c)	Risk assessment	
d)	Manual handling	



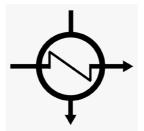
Ques	Question 25			
What	What effect does an NRV have when located in a process pipeline?			
Poss	Possible answers Answer			
a)	Releases pressure at a given set point			
b)	Acts as a self-regulating pressure control valve			
c)	Restricts flow to one direction only			
d)	Aerates the fluid flowing through the pipework			

Ques	tion 26				
Which	of the following statements best defines the terminology	"viscosity"?			
Poss	ble answers	Answer			
a)	The degree of compactness of a substance				
b)	A substance that has no fixed shape				
c)	The state of being thick in consistency				
d)	Firm and stable in shape				



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Qι	uestion	21

When seen on a piping and instrument drawing when does this symbol represent?



Poss	ible answers	Answer
a)	Electric heater	
b)	Heat exchanger	
c)	Check valve	
d)	Pressure safety valve	

Question 28

If fluid A had a higher specific gravity then fluid B and they were both contained in the same environment, which statement is true?

F	Possible answers		Answer
	a) Both liquids would mix together		
7	b) Fluid B would gravitate to below fluid A		
	c)	Fluid A would gravitate to below fluid B	
	d)	An explosive atmosphere would be created	



Ques	Question 29				
	What operating principal does this instrument use to measure the level in the vessel?				
Poss	ible answers	Answer	# ■		
a)	Differential pressure				
b)	Ultrasound				
c)	Radio waves				
d)	Capacitance		I		

Ques	tion 30		
A pump is showing symptoms of higher than normal levels of both noise and vibration. What would commonly be the ca <mark>use</mark> of this condition?			
Poss	ible answers	Answer	
a)	Increased pressure in line		
b)	Blockage in the discharge line		
c)	Higher than normal temperatures		
۹)	Cavitation in numn		

End of Knowledge Test



MOET – Plant Operation Technician Practice Paper Answer Scheme

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