

Plant and Equipment Operator (Percussive Pile) Intermediate Trade Test Mock Written Test Paper

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Plant and Equipment Operator (Percussive Pile) Intermediate Trade Test Knowledge Test

Candidate's Name (C	hin	ese):			
Candidate No.	:				
HK ID No.	:				
Test Date	:		Y	M	D
Time Limit	:	60 minutes			
Notes to Candidates:					

Please tick in the box next to the most suitable answer of the question (☑).

A <u>Tools and Equipment</u>

1. Which of the following is <u>not</u> the power to drive the vibration hammer (震動椿錘)?

(a)	Hydraulic driven	
(b)	Diesel driven	
(c)	Electricity driven	
(d)	Reaction driven	

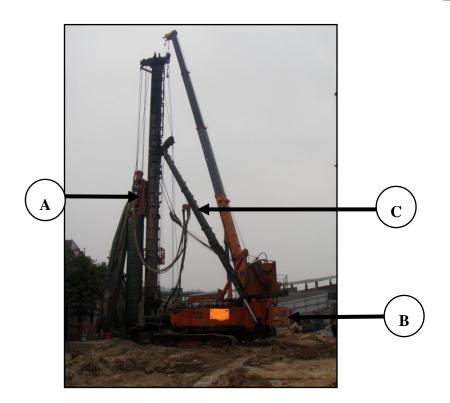


Figure (1)

2. Please select the correct name of Part "A" of the piling machine in Figure (1).

(a)	Percussive hammer (落擊椿錘)	
(b)	Rear rudder (尾鉈)	
(c)	Leader (導架)	
(d)	Adjustable bracing (調整扶撐)	

3.	Please select the correct name of Part "B" of the piling machine in	1
	Figure (1).	
	(a) Percussive hammer (落擊樁錘)	
	(b) Rear rudder (尾鉈)	
	(c) Leader (導架)	
	(d) Adjustable bracing (調整扶撐)	
4.	Please select the correct name of Part "C" of the piling machine in	1
	Figure (1).	
	(a) Percussive hammer (落擊樁錘)	
	(b) Rear rudder (尾鉈)	
	(c) Leader (導架)	
	(d) Adjustable bracing (調整扶撐)	
5.	When piling starts, what type of hammer should be used for	
	positioning?	
	(a) Heavy hammer (重錘)	
	(b) Light hammer (輕錘)	
	(c) Vibration hammer (震錘)	
	(d) No specific category	
6.	When piling will soon complete, what type of hammer is used for t	the
	final set?	
	(a) Heavy hammer (重錘)	
	(b) Light hammer (輕錘)	
	(c) Vibration hammer (震錘)	
	(d) No specific category	

В	Trade Knowledge	
7.	What must be noted when lifting heavy load?	
	(i) The set up position of the crane	
	(ii) The distance between the lifting point and the crane	
	(iii) Inclination of the boom	
	(iv) Mindful of the overload alarm	
	(a) (i) and (ii)	
	(b) (iii)	
	(c) All of the above	
	(d) None of the above	
8.	If it is necessary to lift a 4 m ³ concrete brick, what is the	
	estimated weight?	
	(a) 2 ~ 4 tons	
	(b) 5 ~ 7 tons	
	(c) 8 ~ 10 tons	
	(d) 11 ~ 14 tons	
9.	How do you release wire at height?	
	(a) Choose convenient work appliance at will	
	(b) Stand inside a man cage (吊人籠) complying with safety	
	specifications	
	(c) Stand directly on the hoist to enhance efficiency	
	(d) The most agile colleague should be asked to climb up and	
	release the wire	

10.	The driving direction of H-pile during piling should be:	
	(a) According to the designed direction of the plan	
	(b) No fixed direction but must be different from the adjacent	
	H-pile	
	(c) No fixed direction, to be decided by the worker	
	(d) None of the above	
11.	The distance between each H-pile is:	
	(a) At least 10 m	
	(b) At least 5 m	
	(c) No specification	
	(d) Must comply with the designed specifications of the plan	
12.	Which of the following phenomenon is incorrect when the H-pile is	
	driven to the rock stratum?	
	(a) The sinking speed of the H-pile slows down	
	(b) The pile hammer is jumping	
	(c) The percussion noise becomes louder	
	(d) The percussion noise becomes quieter	
С	Construction Specifications	
40	The control of the control of the first	
13.	The general joining method of H-pile is:	
	(a) Electric arc welding (b) Interlocking by screw and bolt (絲栓互扣)	
	(c) The H-piles have sufficient overlapping	
	(d) All of the above	
14.	Can driving continue if the penetration speed of the pile increases	or
	decreases suddenly during percussion piling process?	_
	(a) Yes, must speed up to complete	
	(b) Yes, must inform the engineer or supervisor afterwards	
	(c) No, must inform the mechanic to inspect	
	(d) No, must immediately inform the engineer or supervisor	Ш

15.	When percussion piling begins, you should:	
	(a) Raise the hammer as high as possible and strike the H-pile	
	with the most vigorous force	
	(b) Slightly raise the hammer, strike the H-pile to fix the position	
	(c) Drive as fast as possible without delay in working hours	
	(c) Drive as fast as possible without delay in working hours	
	(d) No fixed standard	
16.	Is there any limitation on the number of H-pile machines on site?	
	(a) No	
	(b) Depends on the quantity owned by the company	
	(c) Depends on the size of the site	
	(d) Depends on the requirements of the Environmental Protection	
	Department	İ
17.	How do you calculate the depth of the H-pile going underground?	
	(a) Memorize the numbers of H-piles being driven to measure	
	(b) Use the length marked on the H-pile	
	(c) Use a ruler to measure and calculate the depth	
	(d) Can estimate by the penetration speed of the H-pile	
18.	Is there any specification for the heavy hammer (重錘) in the final	
	set?	
	(a) The brand of hammer must be supplied by an authorized vendor	
	(b) The hammer must be pre-approved by the engineer	
	(c) The hammer must be brand new and used for the first time	
	(d) The hammer must be painted with a special colour	
	. ,	

Hand Signals in Plant Operation D 19. The hand signal given by the person in the diagram during crane operation is: Raise hoist (a) (b) Use main hoist (c) Lower hoist slowly (d) Raise hoist slowly 20. The hand signal given by the person in the diagram during crane operation is: (a) Raise hoist (b) Lower hoist (c) Lower hoist slowly (d) Raise hoist slowly 21. The hand signal given by the person in the diagram during crane operation is: (a) Stop everything (b) Emergency stop Travel (c)

(d)

Raise boom

22.	The hand signal given by the person in the diagram during crane operation is:			
		(a) (b) (c) (d)	Stop everything Emergency stop Travel from me Travel	
23.	The hand signal given by	the pei	son in the diagram during	
	crane operation is:	(a) (b) (c) (d)	Travel to me Travel from me Stop Travel slowly	
24.	The hand signal given by crane operation is:	the pei	rson in the diagram during	
		(a) (b) (c) (d)	Swing the load to the right The load is on your right Swing to the left Swing to the right	

I	eration is:		
	(a) (b) (c) (d)	Well done Raise boom Please look to the left Complete	
26. The hand crane ope		erson in the diagram during	
	(a) (b) (c) (d)	Beware of object at height Raise boom slowly Raise load slowly It's going to rain	
27. The hand crane ope		erson in the diagram during	
	(a) (b) (c)	Doing better and better Raise the boom and lower the load Lower the boom and raise the load	
	(d)	The higher the better	

28.	The hand signal given by the person in the diagram during				
	crane operation is:				
	(a) Lower hoist [(b) Lower hoist slowly [(c) Put the load on the ground [(d) Beware of object on the ground [
29.	The hand signal given by the person in the diagram during crane operation is:				
	(a) Lower hoist [(b) Start working immediately [(c) Time to eat [(d) Stop everything [
E	Safety Knowledge				
30.	In general, lifting appliances should be inspected every: (a) 4 months (b) 5 months (c) 6 months (d) 7 months				

34.	The	e validity of certificate of wires for lifting is:	
	(a)	1 month	
	(b)	3 months	
	(c)	6 months	
	(d)	12 months	
35.	The m	ajor purpose of "Site Safety Talks" is:	
	(a)	To provide refreshment to entertain the workers	
	(b)	A routine to fill up working hours	
	(c)	To report and discuss work progress	
	(d)	To regularly inculcate safety knowledge into workers	
36.		ich of the following method should be adopted when workers m	ove
	(a)	Try to move more each time to complete the work faster	
	(b)	Adopt correct posture keeping the back as straight as possible	
	(c)	Toss the load up the rack as much as possible to train up the	
	, ,	body	
	(d)	Take a deep breath, yell and lift the load	
37.	Wh	ich part of the body will easily get injured if workers adopt wrong)
	liftin	ng posture when moving heavy loads?	
	(a)	Neck	
	(b)	Waist	
	(c)	Calf	
	(d)	Arm	
38.	Imp	provement should be made if "manual lifting" cannot be avoided,	e.g.
	red	uce stretching or the times and distance of moving. These meth	ods
	can	be summarized to which of the following ways of handling?	
	(a)	Re-design the load	
	(b)	Re-design the work process	
	(c)	Improve the working environment	
	(d)	Drag on the working hours and increase the pay	

39.	why workers should not wear cotton gloves when operating machines	
	with rotating parts?	
	(a) Cotton gloves will absorb oil	
	(b) Cotton gloves will be damaged	
	(c) Cotton gloves will be entangled in the rotating parts of the	
	machine	
	(d) Cotton gloves will easily cause skin allergy	
40.	The minimum thickness of planks laid on the working platform	
	of construction scaffold is:	
	(a) 20 mm	
	(b) 25 mm	
	(c) 30 mm	
	(d) 40 mm	

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