

Technical Test Theory

Static Concrete Placing Boom A72



No.	Question
1	What is the definition of, or how can a hazard be described?
2	If radios are to be used during a pumping operation, what FIVE actions and checks must be made by the placing boom operator before use?
3	What are the possible outcomes if being prosecuted for not complying with legislation and regulations?
4	What is the purpose of pumping grout through the pipeline?
5	a) If a blockage occurs, what first action must be taken by the operator and b) what must be actioned before the blockage can be cleared?
6	When slewing the boom or changing the working different radius during pumping, what should be checked in relation to the hose?
7	Before cleaning with water or compressed air, what should be removed from the boom?
8	What TWO effects can high wind speeds have on placing boom operations?
9	What FOUR actions should be taken if a hydraulic hose bursts during work?
10	What THREE instances occur if the placement hose is longer than specified?
11	Using the Operator's Manual, what is the maximum wind speed allowed for operations before shut-down has to occur?
12	a) What determines the minimum distances that any part of plant and machinery has to be kept from over head electricity lines and b) explain why a distance should be kept.

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13	What is considered as the danger zone around the placement hose?
14	Name THREE ways that a placing boom operator can contribute in ensuring repeat business with the client or principal contractor.
15	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the boom.
16	If topping up the hydraulic tank with oil, why must gloves be worn?
17	Which two parts of the boom is the operating radius measured from?
18	What effect does wet concrete have if it comes into contact with the skin, particularly over long periods of exposure?
19	Why are pipelines of different diameters used?
20	During the pumping of material, part of the task cannot be carried out as detailed in the method statement. a) What initially must happen to the operation and b) who authorises any changes?
21	If using a remote control, what action should the operator take if they need to leave the operating station during pumping?
22	If pipelines have to be connected to scaffolding, what TWO factors must be ensured?
23	When setting up to work, what should be taken into account when near to tower cranes?
24	What THREE main duties of The Health and Safety at Work Act must employees follow?

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AN NOCN JOB CARD

No.	Question
25	What ways should a pipeline be secured to a building/structure in both a) the vertical and b) the horizontal planes?
26	What is the meaning of this hand signal (being demonstrated by the Tester)?
27	a) What is the purpose of a Method Statement and b) what is required of the operator?
28	Placing boom operators are generally regarded as 'safety-critical' workers. What does this mean?
29	Apart from the operator, who else may need to use the machine's User's Manual?
30	a) Where would a single ended flex be used and b) why is it used?
31	Before the start for work: a) How should signallers be identified and b) what should be agreed between the boom operator and a signaller?
32	Where should the User's Manual be kept and why?
33	When repositioning the boom to a different location during the pour, what action should be taken with the flexible hose?
34	What are the main component parts of a concrete mix?
35	What specific checks should be made to the quick release couplings before and during pumping operations?
36	List SIX typical subject areas that should be covered in a site induction.

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No.	Question
37	Describe at least THREE causes of blockages that may occur within the pipeline.
38	What is the purpose of a risk assessment?
39	Name THREE checks that must be made on the pipeline from the pump to the placing boom before use.
40	What checks need to be made to ensure that the boom structure is stable before work starts?
41	Name FOUR different types or levels of sanctions that can be applied (by employers and judicial bodies) to plant operators who do not comply with, or follow legislation and regulations?
42	a) What additional items (over and above standard site wear) of PPE are required when cleaning out concrete pumps and b) what characteristics must the PPE have?
43	Why must the thickness of steel pipelines be checked on a regular basis?
44	What does The Health and Safety at Work Act require employers to do with regards specifically to plant?
45	If the boom is to be operated from a fixed operating station/position, what should be ensured for the safety of the operator?
46	Give THREE reasons on why the placing hose should not be tied together or folded back on itself?
47	What is the purpose of the blanking piece?
48	If the words STOP NOW are given to the boom operator by radio during the pumping operation, what action must the operator take?

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49	When working in a restricted area/space, name THREE dangers that can be present.
50	What checks should be made to the couplers?
51	If the pedestal area needs to be accessed before, during or after work, what precautions need to be taken?
52	Using the Operator's Manual, state the required length of the delivery hose.
53	What checks should be made to the transmitter of a remote-controlled boom before work?
54	Apart from water, what other supervised method can be used to clean out pipelines?
55	If, as a last resort, using compressed air to clean the system, what must be ensured of the operator?
56	When attaching the placement hose to the boom, what TWO additional items must be fitted?
57	What action should be taken at the end of the pour in relation to the remote control unit?
58	When pumping in hot weather, what should the operator need to take into account?
59	a) What is considered the safest method of cleaning the system and b) explain why?
60	What are the THREE actions or stages that a placing boom operator undertakes during pre-use inspections?

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61	Before actually pouring any concrete, what action should the operator take to ensure the safety of concrete laying gang/team?
62	How can a qualification or card benefit a placing boom operator?
63	Where must waste from the cleaning process not be deposited or kept clear off?
64	How should the placing boom be positioned following the end of the pour?
65	If setting up to pour concrete adjacent to a pedestrianised area, state THREE factors that need to be taken into account.
66	The operator has to use a new type of boom that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?