

Technical Test Theory

Truck Mounted Boom Concrete Pump A06



No.	Question
1	If checking the oil level using a dipstick, why must gloves be worn?
2	Using the Operator's Manual, state the tyres' operating pressure. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
3	What is the purpose of pumping grout through the pipeline?
4	What checks should be made to the couplers?
5	Describe at least TWO causes of blockages that may occur within the pipeline.
6	Which parts of the boom concrete pump is the operating radius measured from?
7	What is the purpose of a risk assessment?
8	On what basis are pipelines and couplers selected?
9	What are the possible outcomes of facing prosecution for not complying with legislation and regulations?
10	What is the maximum allowable air pressure to clean out the pipes?
11	Using the Operator's Manual, state TWO maintenance items to be carried out on the boom. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
12	a) What is the minimum distance allowed near open trenches when travelling the boom concrete pump on site and b) explain why?

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13	Give TWO examples of where The Work at Height Regulations may apply to boom concrete pump operations.
14	a) Who can authorise partial stabiliser extensions and b) what is the effect on lifting capacity if partially extending the outriggers?
15	The operator has to use a new type of vehicle that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
16	What is the purpose of using axle locks?
17	Name THREE ways that a pump operator can contribute in ensuring repeat business with the client or principal contractor.
18	If the boom concrete pump vehicle is being travelled on the public highway, the Road Traffic Act applies. a) What type of licence and which classes should the operator hold and b) what is the minimum age allowed?
19	a) What is considered as the danger zone around the placement hose and b) what is regarded as the safe minimum?
20	What is the function, if fitted, of the mixer paddles?
21	What checks should be made to the transmitter of a remote-controlled pump before work?
22	A boom concrete pump is working in the same vicinity that encroaches the operating radius of a crane. What actions would need to be taken?
23	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
24	During pumping, if the operator (using a remote control) needs to leave the pump, what needs to be ensured?

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25	What THREE main duties of The Health and Safety at Work Act must employees follow?
26	a) What is the purpose of a Method Statement and b) what is required of the operator?
27	If required, in what situation does a hard hat NOT need to be worn when operating a boom concrete pump?
28	If setting up to work near a bank, what is the recommended minimum distance between the stabilisers and the top of the bank?
29	Before cleaning a pipeline with compressed air, what must be removed from the line itself?
30	Why must the thickness of steel pipelines be checked on a regular basis?
31	What does The Health and Safety at Work Act require employers to do with regards specifically to plant?
32	During the pumping operation, 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?
33	How can a qualification or card benefit a boom concrete pump operator?
34	a) Which part of the boom concrete pump applies loading or pressure to the ground and b) how can that pressure be reduced?
35	If setting up to pump concrete in a pedestrianised area, state THREE factors that need to be taken into account.
36	What is the meaning of this hand signal (being demonstrated by the Tester)?

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37	Name FOUR different types or levels of disciplinary actions or sanctions that can be applied (by employers and judicial bodies) to operators of plant who do not comply with, or follow legislation and regulations.
38	Where must waste from the cleaning process be deposited?
39	Name THREE possible underground hazards which may affect the stability of the vehicle when in operation.
40	Prior to travelling the vehicle on the public highway, describe THREE items that should be taken into account when planning a route.
41	What FIVE types of information would a client need from pump hirer/owner before a hire?
42	Where should the Operator's Manual be kept and why?
43	List SIX typical subject areas that should be covered in a site induction.
44	When setting up to work, what should be taken into account for the mixer vehicles?
45	What can occur if the placement hose is longer than specified?
46	When is it acceptable to use compressed air to clean out pipelines?
47	If radios are to be used during a pumping operation, what FIVE actions and checks must be made by the boom concrete pump operator before use?
48	What is the purpose of the blanking piece?

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49	Name TWO ways in which wind speed can affect the pumping operation.
50	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.
51	During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
52	Before re-joining the public highway after completing work, what check must be made to the stabilisers?
53	Name THREE places where the machine should NOT be parked after completion of the pumping operation.
54	What are the main component parts of a concrete mix?
55	If the words STOP NOW are given to the boom concrete pump operator by radio during the lift, what action must the operator take?
56	What is the definition of, or how can a hazard be described?
57	Why are pump operators generally regarded as 'safety-critical' workers?
58	a) What is meant by a knuckle-boom and b) what is an advantage of this type of arrangement?
59	If using a boom concrete pump from a fixed position operating station, what should be ensured for the safety of the operator?
60	Before the start for work: a) How should signallers be identified and b) what should be agreed between the pump operator and a signaller?

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61	Before leaving the vehicle for a rest break, after parking and switching off the vehicle, what final action must be carried out?
62	On a piston-type pump, what is the purpose of the water box?
63	Give THREE possible reasons why concrete pump vehicles should not stray off the designated access routes.
64	Give THREE reasons that may cause the boom concrete pump to overturn.
65	What are the THREE actions or stages that a boom concrete pump operator undertakes during pre-use inspections?
66	What is the purpose of stabilisers on the boom concrete pump?
67	On many construction sites, when MUST a banksman or signaller be used before moving a boom concrete pump?
68	Apart from the operator, who else may need to use the machine's Operator's Manual?
69	What is the difference between: a) a placement hose and b) a delivery hose?