

# Technical Test Theory

## Trailer Mounted Concrete Pump A44



AN NOCN JOB CARD

No.	Question
1	What are the THREE actions or stages that a concrete pump operator undertakes during pre-use inspections?
2	a) What is the purpose of a Method Statement and b) what is required of the operator?
3	What does The Health and Safety at Work Act require employers to do with regards specifically to plant?
4	When is it acceptable to use compressed air to clean out pipelines?
5	Using the Operator's Manual, state the starting procedure for the pump. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
6	What effect does wet concrete have if it comes into contact with the skin, particularly over long periods of exposure?
7	Why must the thickness of steel pipelines be checked on a regular basis?
8	What is the definition of, or how can a hazard be described?
9	If checking the oil level using a dipstick, why must gloves be worn?
10	During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
11	What is the meaning of this hand signal (being demonstrated by the Tester)?
12	Apart from the operator, who else may need to use the machine's User's Manual?

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13	What is the purpose of the blanking piece?
14	Name THREE places where the trailer should NOT be parked after completion of the pumping operation.
15	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.
16	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
17	If the pump has to be lifted into the required position, name SIX factors to be taken into account prior to the lift taking place.
18	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.
19	If a blockage occurs, what actions must be taken by the operator?
20	Name THREE possible underground hazards that may affect the stability of the trailer when in operation.
21	The operator has to use a new type of pump that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
22	What is the purpose of a risk assessment?
23	What is considered as the danger zone around the placement hose?
24	What is the purpose of pumping grout through the pipeline?

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25	List SIX typical subject areas that should be covered in a site induction.
26	What can occur if the placement hose is longer than specified?
27	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?
28	Describe at least THREE causes of blockages that may occur within the pipeline.
29	During pumping, if the operator (using a remote control) needs to leave the pump, what TWO things need to be ensured?
30	What is the purpose of stabilisers on the concrete pump?
31	Where should the User's Manual be kept and why?
32	If the words STOP NOW are given to the concrete pump operator by radio during the pumping operation, what action must the operator take?
33	On a piston-type pump, what is the purpose of the water box?
34	What is the maximum allowable air pressure to clean out the pipes?
35	Where must waste from the cleaning process be deposited?
36	Why are those who operate pumps generally regarded as 'safety-critical' workers?

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37	What is the function, if fitted, of the mixer paddles?
38	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.
39	What checks should be made to the transmitter of a remote-controlled pump before work?
40	When working in a confined area or space, name THREE dangers that can be present.
41	Before the start for work: a) How should signallers be identified and b) what should be agreed between the pump operator and a signaller?
42	Before towing a trailer-mounted pump into position, name SIX factors to be taken into account.
43	What are the possible outcomes of facing prosecution for not complying with legislation and regulations?
44	Before leaving the pump for a rest break, after switching off the pump, what final action must be carried out?
45	If setting up to pump concrete in a pedestrianised area, state THREE factors that need to be taken into account.
46	If radios are to be used during a pumping operation, what FIVE actions and checks must be made by the concrete pump operator before use?
47	What THREE main duties of The Health and Safety at Work Act must employees follow?
48	When setting up to work, what should be taken into account for the mixer vehicles?

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49	On what basis are pipelines and couplers selected?
50	Name THREE ways that a concrete pump operator can contribute in ensuring repeat business with the client or principal contractor.
51	What are the main component parts of a concrete mix?
52	What is the difference between: a) a placement hose and b) a delivery hose?
53	If pipelines have to be connected to scaffolding, what TWO factors must be ensured?
54	What piece of information would a client need from pump hirer/owner before a hire?
55	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?
56	What checks should be made to the couplers?
57	a) Which part of the concrete pump applies loading or pressure to the ground and b) how can that pressure be reduced?
58	How can a qualification or card benefit a concrete pump operator?