

Technical Test Theory

Dragline A05



No.	Question
1	Before manually changing any bucket: a) Where should the bucket be positioned (in relation to the ground) before removing the final pin and b) explain why?
2	Why should different soils be segregated during excavating?
3	What determines the digging depth of a dragline?
4	When working in a confined area or space: a) what danger can be present with regards to the counterweight of the machine, b) what is the recommended minimum distance and c) what measures must be implemented if the gap is less?
5	Why should a dragline be re-fuelled at the end of the day?
6	The operator has to use a new type of dragline that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
7	Using the Operator's Manual, state the cold-starting procedure for the machine. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
8	Give TWO examples of where The Work at Height Regulations may apply to dragline operations.
9	Give TWO reasons why, wherever possible, operators should excavate the ground in layers.
10	If a loaded bucket is slewed rather quickly, what TWO initial effects does it have on the load whilst slewing?
11	Apart from the operator, who else may need to use the machine's Operator's Manual?
12	If fitted, why should the seat belt be worn, even with the cab door closed?

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13	Which parts of the dragline is the radius measured from?
14	When parking the machine at the end of the shift, name THREE places where the machine should NOT be parked.
15	What is the purpose of a roll or ROPS frame?
16	Describe TWO actions to be taken for an open excavation at the end of a working day.
17	If the operator has loaded the dragline onto a transporter/trailer on behalf of a driver, what checks must be carried out before they leave the cab?
18	Where should the dragline's Operator's Manual be kept and why?
19	Give FOUR reasons that may cause the machine to tip over – forwards and/or sideways.
20	Before leaving the cab for a rest break, after parking and switching off the machine, what final action must be carried out?
21	If setting up to start new workings in a confined area, name TWO things that should be taken into account.
22	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.
23	What function does a fairlead carry out?
24	During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.

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25	<p>If the machine has to cross the public highway to access another part of the site, the Road Traffic Act applies.</p> <p>a) What type of licence and which class should the operator hold and b) what is the minimum age allowed?</p>
26	<p>Many draglines have a turbo-charged engine.</p> <p>a) What is the normal procedure before switching off the engine after working and b) what happens if the procedure is not followed?</p>
27	<p>Why must dragline operators not begin to load vehicles until the vehicle driver is in a safe place?</p>
28	<p>What THREE main duties of the Health, Safety and Welfare at Work Act must employees follow?</p>
29	<p>Who should determine the maximum load that should be placed into the body of the dump truck?</p>
30	<p>When would the free fall function be used?</p>
31	<p>What is the purpose of the counterweight of the machine?</p>
32	<p>When slewing with a load, where should the operator be looking?</p>
33	<p>A dragline has been delivered to site, assembled and configured for lifting. What must be carried out before lifting starts and by whom?</p>
34	<p>On machines fitted with two travel levers, if they are pushed forwards when the track motors are in front of the cab, in which direction would the machine traditionally move?</p>
35	<p>a) Why should the slewing direction be to the left wherever possible and b) Explain why.</p>
36	<p>What are the possible outcomes of facing prosecution for not complying with legislation and regulations?</p>

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37	How can a qualification or card benefit a plant operator?
38	What is the meaning of this hand signal (being demonstrated by the Tester)?
39	Give TWO reasons why the operator should have an understanding of the type of spoil being excavated.
40	Explain a possible danger if the dragline is lifting a loaded bucket on sloping ground, even though the load chart indicates that the machine can lift that load?
41	The operator has been asked to drive the dragline onto a transporter/trailer. a) Who is responsible for the loading operations and b) state FOUR actions to be considered by the operator before loading commences.
42	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.
43	In what situation does a hard hat NOT need to be worn when operating a dragline?
44	When MUST a banksman/signaller be used before moving a dragline?
45	What does the Health and Safety at Work Act require employers to do with regards specifically to plant?
46	Give THREE reasons why an oversize bucket should not be used when excavating.
47	How is the bucket adjusted for hard or soft digging?
48	What information does the 'dig-envelope' (also known as 'working range') chart give? (Candidates may be shown a copy of a chart.)

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49	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
50	a) What is the purpose of a Method Statement and b) what is required of the operator?
51	List SIX typical subject areas that should be covered in a site induction.
52	If the operator has to top-up the hydraulic oil, state TWO precautions to ensure cleanliness of the system.
53	Why are plant operators generally regarded as 'safety-critical' workers?
54	What is the purpose of a risk assessment?
55	If checking the oil level using a dipstick, why must gloves be worn?
56	Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or principal contractor.
57	Using the Operator's Manual, state the figure for setting track tension. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
58	What is the definition of, or how can a hazard be described?