

Technical Test Theory

Dump Truck - Articulated Chassis A56

No.	Question
1	Give TWO examples of where The Work at Height Regulations may apply to dump trucks.
2	On articulated dump trucks, steering is achieved by actuating a hydraulic ram (or rams) which is controlled by turning the steering wheel. a) How does the engine supply the oil flow and b) what happens to the steering when the engine stops?
3	Where should the dump truck's Operator's Manual be kept and why?
4	a) Give ONE advantage and b) TWO disadvantages of rear-mounted cameras.
5	What does the Health and Safety at Work Act require employers to do with regards specifically to plant?
6	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.
7	a) State the purpose of a retarder and b) the possible consequences of not using it when required.
8	If a load has to be tipped on a slope, what may happen if the load is tipped downhill and why?
9	The operator has to use a new type of dump truck that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
10	What is the meaning of this hand signal (being demonstrated by the Tester)?
11	Using the Operator's Manual, state the figure for tyres' operating pressure. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
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	How can a qualification or card benefit a plant operator?
14	Operators should lower the body fully before driving away. Give TWO possible consequences if this is not carried out.
15	The rear axle units on most dump trucks pivot on the chassis. Explain the reason for pivoting axles.
16	What problems and hazards can soft ground cause to a loaded dump truck?
17	Why should a dump truck be re-fuelled at the end of the day?
18	If the machine is being travelled or working on the public highway, the Road Traffic Act applies. a) What type of licence and which class should the operator hold and b) what is the minimum age allowed?
19	State the purpose of a heated body.
20	The operator is asked to tip material into a new trench. State FIVE different requirements that must be considered or implemented before tipping commences.
21	When parking the machine at the end of the shift, name THREE places where the dump truck should NOT be parked.
22	Who should determine the maximum load that should be placed into the body of the dump truck?
23	What is regarded as the most productive position for the dump truck to be in when being loaded by a wheeled loading shovel working from a stockpile?
24	a) Name THREE purposes of the raised lugs on tyres and b) what can happen to a dump truck if the lugs are severely worn?

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25	What is a possible consequence of using a tyre with a deep cut in the sidewall?
26	When would the body safety strut or support be used?
27	When travelling on wet clay, what effect does this have on the dump truck?
28	If the operator has to top-up the hydraulic oil, state TWO precautions to ensure cleanliness of the system.
29	a) What is the purpose of a Method Statement and b) what is required of the operator?
30	Before leaving the cab for a rest break, after parking and switching off the machine, what final action must be carried out?
31	If checking the oil level using a dipstick, why must gloves be worn?
32	The operator has been asked to drive the machine 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?
33	When tipping a load, the centre of gravity of the machine changes. a) How does this affect the dump truck and b) state TWO actions to avoid accidents.
34	Why must the seat belt be worn at all times, even with the cab door closed?
35	When working in a confined area or space, what danger can be present with an articulated dump truck with regards to steering?
36	On start up, the air pressure on the machine is low. What actions must the operator carry out before work and during work?

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37	What is the definition of, or how can a hazard be described?
38	When working in a confined area or space, name THREE hazards that can occur.
39	Why are plant operators generally regarded as 'safety-critical' workers?
40	If setting up to work in a pedestrianised area, state THREE factors that need to be taken into account.
41	An operator has been asked to transport materials from one site to another using the public highway, for which the Road Traffic Act applies. What effect can this have on this activity?
42	a) Why should the body of the dump truck be raised slowly/carefully especially with wet or sticky material and b) what would be a consequence if this was not done?
43	Many dump trucks have a turbo-charged engine. a) What is the normal procedure before switching off the engine after working and b) what happens if the procedure is not followed?
44	A dump truck is classified by a manufacturer as a 30-tonne machine. What does this mean?
45	Give THREE possible reasons why dump trucks should not stray off the designated haul routes.
46	Why should tail gates not be fitted when transporting bulky or rock-type material?
47	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.
48	a) What is the minimum distance allowed near open trenches when travelling with a dump truck and b) explain why?

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49	Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or principal contractor.
50	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
51	The function or job role of a dump truck operator, when transporting loads, is to?
52	What is the purpose of a ROPS cab?
53	Apart from the operator, who else may need to use the machine's Operator's Manual?
54	In what situation does a hard hat NOT need to be worn when operating a dump truck?
55	Whenever possible, who should decide the positioning of the dump truck for loading?
56	During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
57	What are the possible outcomes of facing prosecution for not complying with legislation and regulations?
58	If the operator has loaded the machine onto a transporter/trailer on behalf of a driver, state THREE actions that must be carried out before they leave the machine.
59	What THREE main duties of the Health and Safety at Work Act must employees follow?
60	List SIX typical subject areas that should be covered in a site induction.

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61	Give TWO reasons why the dump truck operator should have an understanding of the type of spoil being transported.
62	What is the purpose of a risk assessment?
63	State TWO requirements of using a stop block or earth bank (berm) at a trench discharging point.