

Forward Tipping Dumper

A09

Technical Test – Theory

Roles and responsibilities	1. What is the definition of, or how can a hazard be described?
	A
	2. What is the purpose of a risk assessment?
	A
	3. List SIX typical subject areas that should be covered in a site induction.
	A
	4. What THREE duties of the Health and Safety at Work Act must employees follow?
	A
	5. What does the Health and Safety at Work Act require employers to do with regards specifically to plant?
	A
	6. a) What is the purpose of a Method Statement and b) what is required of the operator?
	A
	7. Name FOUR different types or levels sanctions that can be applied to plant operators who do not comply with, or follow legislation and regulations?
	A
	8. Plant operators are generally regarded as 'safety-critical' workers. What does this mean?
	A

continued...

Roles and responsibilities continued	9. Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
	A
	10. In what situation does a hard hat not need to be worn when operating a forward tipping dumper?
	A
	11. The operator has to use a new type of dumper i.e. swivel skip that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
	A
	12. What are the possible outcomes of being prosecuted for not complying with legislation and regulations?
	A
	13. What is a dumper operator's main purpose or requirement?
	A
Preparing for work	14. How can a qualification or card benefit a plant operator?
	A
	15. Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or main contractor.
	A
	16. Where should the dumper's Operator's Manual be kept and why?
A	
Preparing for work	17. When would the skip safety strut or support be used?
	A
	18. If the operator has to top-up the hydraulic oil, state TWO precautions to ensure cleanliness of the system.
A	

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Preparing for work continued	19. What is a possible consequence of using a tyre with a deep cut in the sidewall?
	A
	20. What is the purpose of a roll or ROPS frame?
	A
	For questions 21 and 22 the Operator's Manual for the machine being used for the test MUST be available for reference by the candidate
	21. Using the Operator's Manual, state the figure for tyres' operating pressure. For tracked machines, what specific checks must be made to the track belt?
	A
	22. Using the Operator's Manual, state the cold-starting procedure for the machine.
	A
	23. On articulated dumpers, steering is achieved by actuating a hydraulic ram 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?
	A
	24. If checking the oil level using a dipstick, why must gloves be worn?
	A
	25. Apart from the operator, who else may need to use the machine's Operator's Manual?
	A
	26. A dumper is classified by a manufacturer as a 6 tonne dumper. What does this mean?
	A
	27. Most site dumpers have the engine at the rear. State the main reason for this.
A	
28. During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.	
A	

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Travelling and manoeuvring	29. Most forward tipping dumpers have an articulated chassis that swivels or pivots in the centre. One pivot plane or angle (looking from the top) provides the steering (articulation): what is the function of the other pivot plane or angle i.e. looking from the front (oscillation)?
	A
	30. Give FOUR reasons that may cause the dumper to tip over sideways during travel.
	A
	31. a) What is the minimum distance allowed near open trenches when travelling with a dumper and b) explain why?
	A
	32. Why must the seat belt be worn at all times?
	A
	33. If the machine is being travelled or working on the public highway, including adjacent pavements and verges, 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?
	A
	34. When travelling on wet clay, what effect does this have on the dumper?
	A
	35. Manufacturers must give recommendations on how to travel a dumper up and down inclines. If this information is not known first hand, what is the general rule about travelling up and down slopes?
	A
	36. How is it possible that dumpers, even when travelling on gentle gradients, are not overloaded and not being driven at excessive speed, can still tip over?
	A
37. a) Name THREE purposes of the raised lugs on tyres and b) what can happen to a dumper if the lugs are severely worn?	
A	

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Setting up for work	38. If setting up to work in a pedestrianised area, state THREE factors that need to be taken into account.
	A
	39. Whenever possible, who should decide the positioning of the dumper when being loaded?
	A
	40. The operator is asked to tip material into a new trench. State FIVE different requirements that must be considered or implemented before tipping commences.
	A
	41. Give TWO reasons for using a swivel skip dumper over a conventional forward tipping skip.
	A
	42. What problems and hazards can soft ground cause to a loaded dumper?
A	
43. Give TWO reasons why the dumper operator should have an understanding of the type of spoil being transported.	
A	
Working tasks	44. When working in a confined area or space what danger can be present with an articulated dumper with regards to steering?
	A
	45. Name: a) TWO precautions and b) TWO operating procedures that should be taken when discharging loads on the move.
A	

continued...

Working tasks continued	46. When working in a confined area or space, name THREE hazards that can occur.
	A
	47. a) What is the recommended minimum distance to be kept away from overhead power lines mounted on wooden poles when tipping loads and b) explain why a distance should be kept?
	A
	48. Why do high tip dumpers need particular care when tipping?
	A
	49. Who should determine the maximum load that should be placed into the skip of the dumper?
	A
	50. State TWO requirements of using a stop block or earth bank (berm) at a trench discharging point.
	A
	51. When forward tipping a load, the centre of gravity of the machine changes. a) What effect does this have on the dumper and b) state TWO actions to avoid accidents?
	A
	52. If a load has to be tipped on a slope, what may happen if the load is tipped downhill?
	A
53. Operators should lower the skip fully before driving away. Give TWO possible consequences if this is not carried out.	
A	
54. Name THREE actions to be taken before transporting wide loads.	
A	

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Working tasks continued	55. Name THREE problems that could occur if the skip is overloaded with a dense material.
	A
	56. What is the meaning of this hand signal (being demonstrated by the Tester)?
	A
Completing work	57. Larger dumpers use 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?
	A
	58. Before leaving the cab for a rest break, after parking and switching off the machine, what final action must be carried out?
	A
Shutdown	59. When parking the machine at the end of the shift, name THREE places where the dumper should NOT be parked.
	A
	60. Why should a dumper be re-fuelled at the end of the day?
	A
	61. 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.
	A