

**Dump Truck**  
Articulated Chassis

**A56**  
Technical Test – Theory

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

*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 dump truck?
	A
	11. 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?
	A
	12. What are the possible outcomes if being prosecuted for not complying with legislation and regulations?
	A
	13. Give TWO examples of where The Work at Height Regulations may apply to dump trucks.
	A
Preparing for work	14. How can a qualification or card benefit a plant operator?
	A
	15. What is a dump truck operator's main purpose or requirement?
	A
	16. Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or main contractor.
	A
	17. Where should the dump truck's Operator's Manual be kept and why?
	A
	18. What is a possible consequence of using a tyre with a deep cut in the sidewall?
A	
Preparing for work	19. When would the body safety strut or support be used?
	A

*continued...*

Preparing for work continued	20. If the operator has to top-up the hydraulic oil, state TWO precautions to ensure cleanliness of the system.
	<b>A</b>
	<b>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</b>
	21. Using the Operator's Manual, state the figure for tyres' operating pressure.
	<b>A</b>
	22. Using the Operator's Manual, state the cold-starting procedure for the machine.
	<b>A</b>
	23. 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?
	<b>A</b>
	24. If checking the oil level using a dipstick, why must gloves be worn?
	<b>A</b>
	25. Apart from the operator, who else may need to use the machine's Operator's Manual?
	<b>A</b>
	26. What is the purpose of a ROPS cab?
	<b>A</b>
	27. A dump truck is classified by a manufacturer as a 30 tonne machine. What does this mean?
<b>A</b>	
28. State the purpose of a heated body.	
<b>A</b>	
29. On start up, the air pressure on the machine is low. What actions must the operator carry out before work and during work?	
<b>A</b>	

*continued...*

Preparing for work continued	30. During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
	<b>A</b>
Travelling and manoeuvring	31. The rear axle units on most dump trucks pivot on the chassis. Explain the reason for pivoting axles.
	<b>A</b>
	32. a) State the purpose of a retarder and b) and the possible consequences of not using it when required.
	<b>A</b>
	33. 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?
	<b>A</b>
	34. What problems and hazards can soft ground cause to a loaded dump truck?
	<b>A</b>
	35. a) Give ONE advantage and b) TWO disadvantages of rear mounted cameras.
	<b>A</b>
	36. a) What is the minimum distance allowed near open trenches when travelling with a dump truck and b) explain why.
	<b>A</b>
37. 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?	
<b>A</b>	
38. When travelling on wet clay, what effect does this have on the dump truck?	
<b>A</b>	

*continued...*

Travelling and manoeuvring continued	39. Why must the seat belt be worn at all times, even with the cab door closed?
	<b>A</b>
	40. Give THREE possible reasons why dump trucks should not stray off the designated haul routes.
	<b>A</b>
Setting up for work	41. If setting up to work in a pedestrianised area, state THREE factors that need to be taken into account.
	<b>A</b>
	42. Whenever possible, who should decide the positioning of the dump truck for loading?
	<b>A</b>
	43. The operator is asked to tip material into a new trench. State FIVE different requirements that must be considered or implemented before tipping commences.
	<b>A</b>
	44. Give TWO reasons why the dump truck operator should have an understanding of the type of spoil being transported.
	<b>A</b>
Working tasks	45. When working in a confined area or space, what danger can be present with an articulated dump truck with regards to steering?
	<b>A</b>
	46. Why should tail gates not be fitted when transporting bulky or rock type material?
	<b>A</b>
	47. When working in a confined area or space, name THREE hazards that can occur.
	<b>A</b>

*continued...*

Working tasks continued	48. 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.
	<b>A</b>
	49. 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?
	<b>A</b>
	50. Who should determine the maximum load that should be placed into the body of the dump truck?
	<b>A</b>
	51. State TWO requirements of using a stop block or earth bank (berm) at a trench discharging point.
	<b>A</b>
	52. 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?
	<b>A</b>
	53. If a load has to be tipped on a slope, what may happen if the load is tipped downhill and why?
	<b>A</b>
54. An operator has been asked to transport a load down a small section of the public highway, for which the Road Traffic Act applies. What effect does this have on dump truck operations?	
<b>A</b>	
55. 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?	
<b>A</b>	
56. What is the meaning of this hand signal (being demonstrated by the Tester)?	
<b>A</b>	

*continued...*

Working tasks continued	57. Operators should lower the body fully before driving away. Give TWO possible consequences if this is not carried out.
	A
Completing work	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 dump truck should NOT be parked.
	A
	60. 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?
	A
	61. Why should a dump truck be re-fuelled at the end of the day?
	A
	62. 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
63. 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.	
A	