

Loader Compressor

A41

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 main 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 of sanctions that can be applied (by employers and judicial bodies) 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 loader compressor?
	A
	11. The operator has to fit and use a new bucket using a quick-hitch coupler 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 (by judicial bodies) for not complying with legislation and regulations?
	A
Preparing for work	13. How can a qualification or card benefit a plant operator?
	A
	14. Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or main contractor.
	A
	15. Where should the machine's Operator's Manual be kept and why?
	A
	16. If the operator has to refill the fuel tank, state TWO precautions to ensure cleanliness of the system.
A	
Preparing for work	17. What is the purpose of a roll or ROPS frame?
	A

continued...

Preparing for work continued	For questions 18 and 19 the Operator’s Manual for the machine being used for the test MUST be available for reference by the candidate
	18. Using the Operator’s Manual, state the figure for the tyres’ operating pressure.
	A
	19. Using the Operator’s Manual, state the cold-starting procedure for the machine.
	A
	20. What is a possible consequence of using a tyre with a deep cut in the sidewall?
	A
	21. If checking the oil level using a dipstick, why must gloves be worn?
	A
	22. How is a compressor output calculated?
	A
	23. What is the typical working pressure of an air operated breaker?
	A
	24. Apart from the operator, who else may need to use the machine’s Operator’s Manual?
A	
25. When air is compressed, what fluid is produced?	
A	
26. What is the purpose of the compressor’s pressure relieve valve?	
A	
27. During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.	
A	

Travelling and manoeuvring	28. An operator has to travel the machine on the public highway. List SIX requirements that must be followed.
	A
	29. If the loader compressor is being travelled or working on the public highway, including adjacent pavement and verges, The Road Traffic Act applies. a) What type of licence and which classes should the operator hold and b) what is the minimum age allowed?
	A
	30. Name THREE conditions that mirrors must be in, on the machine.
	A
	31. Why must the seat belt be worn, even with the cab door closed?
	A
	32. What problems and hazards can soft ground cause to a loaded loader compressor?
A	
Setting up for work	33. Give FOUR reasons that may cause the loader compressor to tip over sideways.
	A
	34. Whenever possible, who should decide the positioning of a vehicle to be loaded?
A	
Setting up for work	35. Explain ALL visual checks that must be carried out on all types of quick-hitch bucket attaching systems before use.
	A

Setting up for work continued	36. On a semi-automatic quick-hitch bucket attaching system: a) what is the purpose of the safety pin and b) what checks MUST be made to the pin before use?
	A
	37. Why should air hosing length be kept to a minimum?
	A
	38. Give THREE possible reasons why loader compressors should not stray off the designated haul routes.
	A
	39. Describe ONE physical method of checking that the attachment is fully secured to the coupler prior to work.
	A
	40. a) What is meant by 'white finger' and b) name TWO methods of reducing the effect?
	A
	41. If setting up to work in a pedestrianised area, state THREE factors that need to be taken into account?
	A
	42. If using a compressed air tool to break up a concrete type surface, list FIVE items of PPE that must be worn.
	A
43. What is regarded as the most productive position for a vehicle to be loaded to be in when being loaded from a stockpile?	
A	
44. Before manually changing any bucket: a) where should the bucket be positioned (in relation to the ground) before removing the final pin and b) why?	
A	

continued...

Setting up for work continued	45. Give TWO reasons why the loader compressor operator should have an understanding of the type of material being loaded.
	A
Working tasks	46. The operator is asked to tip material into a trench. State FIVE different requirements that must be considered or implemented before tipping commences.
	A
	47. Who should determine the maximum load that should be placed into the body of a vehicle being loaded?
	A
	48. If a load has to be tipped on a slope, what may happen if the load is tipped downhill and why?
	A
	49. When working in a confined area or space, name THREE hazards that can occur.
	A
	50. 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
Completing work	51. State TWO requirements of using a stop block or earth bank (berm) at a trench discharging point.
	A
Completing work	52. Before leaving the cab for a rest break, after parking and switching off the machine, what final action must be carried out?
	A

Shutdown	53. When parking the machine at the end of the shift, name THREE places where the machine should NOT be parked.
	A
	54. 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
	55. If the operator has loaded the machine onto a transporter/trailer on behalf of a driver, what checks must be carried out before they leave the cab?
	A
	56. Why should a loader compressor be re-fuelled at the end of the day?
	A