

Soil/Landfill Compactor

A32

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 compactor?
	A
	11. The operator has to use a new model of compactor 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
	13. Give TWO examples of where The Work at Height Regulations 1995 may apply to compactor operations.
	A
	14. How can a qualification or card benefit a plant operator?
	A
	15. Name THREE ways that a compactor operator can contribute in maintaining business with the client or contractor.
	A
	Preparing for work
A	
17. If the operator has to top-up the hydraulic oil, state TWO precautions to ensure cleanliness of the system.	
A	
	18. What is the purpose of a roll or ROPS frame?
	A

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ing for work contin	For questions 19 and 20 the Operator’s Manual for the machine being used for the test MUST be available for reference by the candidate
	19. Using the Operator’s Manual, state the procedures for cleaning the radiator.
	A
	20. Using the Operator’s Manual, state the cold-starting procedure for the machine.
	A
	21. Name: a) FOUR health hazards that are particular to landfill areas and b) what precautions may be taken.
	A
	22. If checking the oil level using a dipstick, why must gloves be worn?
	A
	23. a) What is meant by blade capacity and b) how is it determined?
	A
	24. What are the TWO aims of compaction?
	A
	25. What is the purpose of the ‘striker bars’?
	A
	26. Name three different types of landfill methods.
	A
	27. What is the result of well compacted fills?
	A
	28. What is meant by ‘inert waste’?
	A

continued...

Preparing for work continued	29. On soil compaction, what type of soil is a sheepsfoot compactor best suited to?
	A
	30. Which main component parts of the compactor is subject to trash or waste build-up?
	A
	31. Apart from the operator, who else may need to use the machine's Operator's Manual?
	A
	32. Describe one method that keeps debris from sticking to the wheel tips.
A	
Travelling and manoeuvring	33. During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
	A
	34. Most compactors 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
	35. a) Give ONE advantage and b) TWO disadvantages of rear mounted cameras.
	A
	36. Name THREE conditions that mirrors must be in, on the machine.
A	
Travelling and manoeuvring	37. Why must the seat belt be worn, even with the cab door closed?
	A
	38. What problems and hazards can soft ground cause to a loaded compactor?
A	

continued...

Travelling and manoeuvring continued	39. a) Name THREE purposes of the raised tips on the wheels and b) what can happen to a compactor if they are severely worn?
	A
	40. a) What is the minimum distance allowed near any open trenches when travelling with a compactor and b) explain why.
	A
	41. On articulated compactors, 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?
	A
Setting up for work	42. Give THREE reasons that may cause the compactor to tip over sideways.
	A
	43. Before manually changing any blade: a) where should the blade be positioned (in relation to the ground) before removing the final pin and b) why?
	A
Working tasks	44. What is the recommended maximum slope ratio?
	A
	45. Why should the compactor operator have an understanding of the type of material being moved and spread?
Working tasks	A
	46. When working in a confined area or space, name THREE hazards that can occur.
	A
	47. What are the purposes of the refuse screen mounted on top of the blade?
	A
Working tasks	48. When would a 'U' blade be used over a straight blade?
	A

continued...

Working tasks continued	49. a) What is the recommended minimum distance to be kept away from overhead power lines mounted on wooden poles when working and b) explain why a distance should be kept.
	A
	50. If fitted, what can the float function on the blade allow?
	A
	51. Wherever possible, why should the compactor be aligned before making the next pass or cut?
	A
	52. What is the ideal thickness to spread and compact material during each phase?
	A
	53. What could happen if incompatible waste was mixed?
	A
	54. What determines the number of passes?
	A
Completing work	55. Why is moisture a benefit to soil and material compaction?
	A
	56. When pushing material, why should the blade be feathered before reaching the end of the run?
A	
Shutdown	57. What is the recommended depth of earth cover which is spread over a compacted waste area at the end of the day?
	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. Many compactors 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

continued...

Shutdown continued	60. When parking the machine at the end of the shift, name THREE places where the machine should NOT be parked.
	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
	62. 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
	63. Why should a compactor be re-fuelled at the end of the day?
	A