

# Hoist

**A20**

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 (by employers and judicial bodies) to plant operators who do not comply with, or follow legislation and regulations.
	<b>A</b>
	8. Dedicated hoist operators are generally regarded as ‘safety-critical’ workers. What does this mean?
	<b>A</b>

Roles and responsibilities continued	9. The operator has to use a new type of hoist that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
	<b>A</b>
	10. What are the possible outcomes of being prosecuted for not complying with legislation and regulations?
	<b>A</b>
	11. How can a qualification or card benefit a hoist operator?
	<b>A</b>
Preparing for work	12. Name THREE ways that a hoist operator can contribute to ensuring repeat business with the client or main contractor.
	<b>A</b>
	13. Where should the user's manual be kept and why?
	<b>A</b>
	14. What are the THREE actions that a hoist operator undertakes during pre-use inspections?
	<b>A</b>
	<b>For question 15 the Operator's Manual for the machine being used for the test MUST be available for reference by the candidate</b>
	15. Using the Operator's Manual, find the page that deals with emergency lowering procedures.
<b>A</b>	
16. a) Why must all movement controls be clearly marked as to direction or mode and b) what consequences could occur if controls were not clearly marked?	
<b>A</b>	
17. The Safe Working Load (SWL) signifies exactly what?	
<b>A</b>	

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Preparing for work continued	18. When placing loads to and from the cage, why should gloves be worn?
	<b>A</b>
	19. Apart from the operator, who else may need to use the machine's Operator's Manual?
	<b>A</b>
	20. As a machine for the lifting of persons, the hoist must be thoroughly examined. a) What is the purpose of the examination and b) who would carry out the examination?
	<b>A</b>
	21. On hoists using a chassis, what checks should be made to the stabilisers?
	<b>A</b>
	22. What is meant by an inclined hoist?
	<b>A</b>
	23. What is the difference between a mechanical interlock gate and an electric interlock gate?
	<b>A</b>
	24. On rope operated types, why is it important to keep turns of rope on the hoist drum?
	<b>A</b>
25. When checking a (fall protection) harness, name FIVE possible defects that may be found.	
<b>A</b>	
26. How many ties should be used when fixing the mast to a structure?	
<b>A</b>	
27. What is meant by the hoistway?	
<b>A</b>	
28. After installation but before work: a) what must happen and b) by whom?	
<b>A</b>	

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Preparing for work continued	29. If a fault is found during pre-use checks: a) who should the fault be reported to and b) when?
	<b>A</b>
	30. What is the difference between a transport platform and a passenger/goods combined type?
	<b>A</b>
	31. What could possibly cause the mast to go out of alignment?
	<b>A</b>
	32. What are the main requirements of a passenger-carrying type hoist over a goods type?
<b>A</b>	
Setting up for work	33. What checks should be made to the mast ties?
	<b>A</b>
	34. If siting a chassis or frame for a hoist, what checks must be made to the ground type?
	<b>A</b>
	35. What THREE pieces of information must be displayed on the gates of a goods carrying hoist?
	<b>A</b>
	36. When setting up for work, what should be in place should machine failure happen?
<b>A</b>	
Setting up for work	37. If the hoist is located in an area of moving vehicles, what systems should be implemented?
	<b>A</b>
Setting up for work	38. If operating a hoist in a pedestrianised area, state TWO factors that need to be taken into account.
	<b>A</b>

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Setting up for work continued	39. If the operator is unable to see the full length of the hoistway, what action should be taken?
	<b>A</b>
	40. What must you take into account when calculating the safe working load of the cage?
Setting up for work continued	<b>A</b>
	41. Before taking passengers up in a hoist, what should be ensured about the individual or individuals?
	<b>A</b>
Working tasks	42. a) What is the recommended minimum distance to be kept away from overhead power lines mounted on wooden poles when setting up the hoist and b) explain why a distance should be kept.
	<b>A</b>
	43. Name TWO factors that determine the weight of a load.
	<b>A</b>
	44. When raising the cage, what ongoing checks need to be made?
	<b>A</b>
	45. a) What is the danger of carrying scaffolding in unmodified cages and b) what is required in the cage to carry scaffolding?
	<b>A</b>
	46. When working in a confined area or space with a diesel powered hoist, what TWO dangers can be present?
	<b>A</b>
	47. Name THREE ways that inclement, wet weather can affect hoist operations.
	<b>A</b>
48. How can high wind speeds affect hoist operations?	
<b>A</b>	

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Working tasks continued	49. When loading materials into the cage, what THREE things must be taken into account?
	<b>A</b>
	50. After loading the cage with passengers, the operator selects a motion but the motor doesn't start. Name FOUR possible problems.
	<b>A</b>
	51. What is the function of the over-run devices?
	<b>A</b>
	52. On hoist with two-speed motors: a) what should the operator do when approaching the desired landing and b) why?
	<b>A</b>
	53. If a thunderstorm is expected or occurs, what procedure should happen?
	<b>A</b>
Shutdown	54. On ride-on types, if the hoist drive motor stops between landings, what is the course of action?
	<b>A</b>
	55. In simple terms, on rack and pinion types, how do emergency lowering systems work?
	<b>A</b>
	56. What is the meaning of this hand signal (being demonstrated by the Tester)?
	<b>A</b>
	57. Before leaving the cage for a rest break, what action must be carried out?
	<b>A</b>
58. After shutdown, the cage floor should be cleaned. What other part of the cage should be cleaned (if required)?	
<b>A</b>	