

Mobile Elevating Work Platform

A27

Mast Climber

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. Dedicated mast climber operators are generally regarded as 'safety-critical' workers. What does this mean?
	A

Roles and responsibilities continued	9. What determines the type of (fall protection) harness that can be worn when operating a mast climber?
	A
	10. What is the difference between a: a) work restraint system and b) fall arrest system?
	A
	11. When can a mast climber work on sloping ground?
	A
	12. The operator has to use a new type of mast climber that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
	A
	13. What are the possible outcomes of being prosecuted for not complying with legislation and regulations?
	A
	14. How can a qualification or card benefit a plant operator?
	A
	15. Name THREE ways that a plant operator can contribute to ensuring repeat business with the client or main contractor.
	A
	Preparing for work
A	
17. What are the THREE actions that a mast climber operator undertakes during pre-use inspections?	
A	
For question 18 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, find the page that deals with emergency lowering procedures.	
A	

continued...

Preparing for work continued	19. 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?
	A
	20. The Safe Working Load (SWL) signifies what?
	A
	21. When placing loads to and from the platform, why must gloves be worn?
	A
	22. Apart from the operator, who else may need to use the machine's Operator's Manual?
	A
	23. As a machine for the lifting of persons, the mast climber must be thoroughly examined. a) What is the purpose of the examination and b) who would carry out the examination?
	A
	24. On mast climbers using a chassis, what checks should be made to the stabilisers?
	A
	25. What is the function of the electric interlock on the gate?
	A
26. When checking a (fall protection) harness, name FIVE possible defects that may be found.	
A	
27. How many ties should be used when fixing the mast to a structure?	
A	
28. After installation but before work: a) what must happen and b) by whom?	
A	
29. If a fault is found during pre-use checks: a) who should the fault be reported to and b) when?	
A	

continued...

Preparing for work continued	30. What could possibly cause the mast to go out of alignment?
	A
	31. What checks should be made to the mast ties?
	A
Setting up for work	32. If siting a chassis or frame base for a mast climber, what checks must be made to the ground type?
	A
	33. What information must be displayed on the platform?
	A
	34. When setting up for work, what should be in place should machine failure happen?
	A
	35. If the mast climber is located in an area of moving vehicles, what systems should be implemented?
	A
	36. If operating a mast climber in a pedestrianised area, state TWO factors that need to be taken into account.
	A
	37. What must you take into account when calculating the safe working load of the platform?
	A
	38. Before taking passengers up in a mast climber, what should be ensured about the individual or individuals?
	A
39. a) What is the recommended minimum distance to be kept away from overhead power lines mounted on wooden poles when setting up a mast climber and b) explain why a distance should be kept.	
A	
40. Name TWO factors that determine the weight of a load.	
A	

Working tasks	41. Give TWO reasons why is it important that a mast climber is not leaning sideways before attempting to raise the platform.
	A
	42. If fitted: a) what can be placed on the platform extensions and b) when?
	A
	43. At what height can personnel access and egress the platform?
	A
	44. On dual masted climbers, why should there be at least two personnel on board?
	A
	45. When raising the platform, what ongoing checks need to be made?
	A
	46. When working in a confined area or space with a diesel powered mast climber, what TWO dangers can be present?
	A
	47. Name THREE ways that inclement, wet weather can affect mast climber operations.
	A
	48. If raising the platform up to a ceiling of a structure, why must extra care be taken when nearing the ceiling?
	A
	49. How can high wind speeds affect mast climber operations?
	A
50. When loading materials onto the platform, what THREE things must be taken into account?	
A	
51. After loading the platform, the operator selects a motion but the motor doesn't start. Name THREE possible problems.	
A	

continued...

Working tasks continued	52. What is the function of the over-run device?
	A
	53. What is the procedure if a thunderstorm is expected or occurs?
	A
	54. If the platform drive motor(s) stops whilst travelling, what is the course of action?
	A
	55. In simple terms, on rack and pinion types, how do emergency lowering systems work?
A	
Shutdown	56. What is the meaning of this hand signal (being demonstrated by the Tester)?
	A
	57. Before leaving the platform for a rest break, what action must be carried out?
	A
Shutdown	58. After shutdown, why should the platform floor be cleaned?
	A