

Mobile Elevating Work Platform

A26

Boom

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

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. What determines the type of harness that can be worn when operating a MEWP boom?
	A
	11. When can a MEWP work (raise the platform) on sloping ground?
	A
	12. The operator has to use a new type of MEWP 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
	16. a) What is meant by the working range of the MEWP and b) who determines it?
A	
17. What is the difference between: a) a work restraint system and b) a fall arrest system?	
A	
Preparing for work	18. Where should the Operator's Manual be kept and why?
	A

continued...

Preparing for work	19. a) What is the difference between outreach and radius of a MEWP boom and b) why would an operator need to know the difference?
	A
	20. What are the THREE actions that a MEWP operator undertakes during pre-use inspections?
	A
	For questions 21 to 22 the Operator’s Manual for the machine being used for the test MUST be available for reference by the candidate
	21. Using the Operator’s Manual, state the figure for the tyre pressures. For tracked types, state checks that must be made to the track belts.
	A
	22. Using the Operator’s Manual, state any cold-starting procedures for the machine. For electric units only, state the battery function checks that need to be made.
	A
	23. State the purpose of the check valve(s) located on the boom cylinder ram (or rams), circuit.
	A
	24. When or why would foam filled tyres be specified for platform operations?
	A
	25. What is meant by a bi-fuel MEWP?
A	
26. How do stabilisers increase the potential stability of a MEWP boom?	
A	

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Preparing for work continued	27. a) Why must all travel and platform controls be clearly marked as to function and direction or mode and b) what consequences could occur if controls were not clearly marked?
	A
	28. The Safe Working Load (SWL) means exactly what?
	A
	29. When checking fluid levels, why must gloves be worn?
	A
	30. Apart from the operator, who else may need to use the machine's Operator's Manual?
	A
	31. What THREE types of information may be found on the operating envelope chart of a MEWP boom?
	A
	32. What is the purpose of the counterweights of the machine?
	A
	33. If required to wearing a safety harness or belt: a) where must it be attached to and b) where should the harness not be attached to?
	A
34. As a machine for the lifting of persons, the MEWP must be thoroughly examined. a) What is the purpose of the examination and b) who would carry out the examination?	
A	
35. On IC engines, 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	36. If a self-propelled MEWP 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
	37. If travelling near an open trench which has a depth of 2.0 metres, what is the minimum distance to maintain?
	A
	38. What would happen if the steering axle is to the rear of the direction for travel?
	A
	39. On vehicle mounted MEWPs, what main precaution should be taken before travelling on the public highway?
	A
	40. An operator has to travel a MEWP along a stretch of the public highway, for which the road traffic act applies. List SIX requirements that must be followed.
A	
41. Before climbing or descending a slope, what FOUR factors should be checked?	
A	
Setting up for work	42. When setting up for work, what should be in place should machine failure happen?
	A
	43. If setting up to work near a steep slope, apart from ground support: a) what could be a danger and b) what actions should be taken?
	A
	44. When siting the MEWP for work, what checks must be made to the ground type?
A	
45. If using a MEWP in an area where there are moving vehicles, state THREE precautions to be taken	
A	

continued...

Setting up for work continued	46. Apart from ground conditions, list FIVE checks that must be taken into account when siting the MEWP.
	A
	47. If setting up to lift in a pedestrianised area, state TWO factors that need to be taken into account.
	A
	48. What must you take into account when calculating the safe working load of the platform of a MEWP?
	A
	49. Before taking passengers up in a MEWP, what should be ensured about the individual or individuals?
	A
	50. a) What is the recommended minimum distance to be kept away from overhead power lines mounted on wooden poles when setting up the MEWP and b) explain why a distance should be kept.
	A
Working tasks	51. Name TWO factors that determine the weight of a load.
	A
	52. If setting up to work near a bank, what is the recommended distance between the stabilisers or wheels and the top of the bank?
	A
	53. Give TWO reasons why is it important that a MEWP is not leaning sideways before attempting to raise the platform.
A	
Working tasks	54. Give FOUR reasons that may cause the MEWP to tip over sideways.
	A
	55. Give THREE reasons that may cause the machine to tip forwards.
A	

continued...

Working tasks continued	56. When working in a confined area or space with a diesel powered machine, name THREE dangers that can be present?
	A
	57. Name FOUR ways that wet weather affect MEWP operations.
	A
	58. If raising the platform up to a ceiling of a structure, why must extra care be taken when nearing the ceiling?
	A
	59. How can high wind speeds affect MEWP operations?
	A
Shutdown	60. What is the meaning of this hand signal (being demonstrated by the tester)?
	A
	61. Before leaving the cab or platform for a rest break, after parking and switching off the machine, what final action must be carried out?
	A
	62. When parking the machine at the end of the shift, name THREE places where the MEWP should NOT be parked.
	A
	63. The operator has been asked to drive a self-propelled MEWP 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
	64. Why should a diesel MEWP be re-fuelled at the end of the day?
A	