

# Technical Test Theory

## MEWP - Scissor and Boom A25/A26



No.	Question
1	Before taking passengers up in a MEWP, what should be ensured about the individual or individuals?
2	Name FOUR different types or levels of disciplinary actions or sanctions that can be applied (by employers and judicial bodies) to operators of plant who do not comply with, or follow legislation and regulations.
3	Name FOUR ways that wet weather affects MEWP operations.
4	What does the Health and Safety at Work Act require employers to do with regards specifically to plant?
5	An operator has to drive a vehicle-mounted MEWP along a stretch of the public highway, for which the road traffic act applies. List SIX requirements that must be followed.
6	What must you take into account when calculating the safe working load of the platform of a MEWP?
7	Where should the Operator's Manual be kept and why?
8	What is the meaning of this hand signal (being demonstrated by the Tester)?
9	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. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
10	When can a MEWP work (i.e. raise the platform) on sloping ground?
11	How do stabilisers increase the potential stability of a MEWP?
12	If required to wear a safety harness or belt: a) where must it be attached to and b) where should the harness not be attached to?

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13	On IC engines, during work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
14	Give TWO reasons why it is important that a MEWP is not leaning sideways before attempting to raise the platform.
15	What THREE types of information may be found on the operating envelope chart of a MEWP boom?
16	Apart from ground conditions, list FIVE checks that must be taken into account when siting the MEWP.
17	On vehicle-mounted MEWPs, what main precaution should be taken before travelling on the public highway?
18	Why are those who operate MEWPS generally regarded as 'safety-critical' workers?
19	Why should a diesel MEWP be re-fuelled at the end of the day?
20	Before leaving the cab or platform for a rest break, after parking and switching off the machine, what final action must be carried out?
21	What is the purpose of the counterweight of the machine?
22	As a platform is raised higher, what also rises that can cause instability?
23	The Safe Working Load (SWL) means exactly what?
24	When siting the MEWP for work, what checks must be made to the ground type?

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25	<p>As a machine for the lifting of persons, the MEWP must be thoroughly examined.</p> <p>a) What is the purpose of the examination and b) who should carry out the examination?</p>
26	<p>a) What determines the minimum distances that any part of plant and machinery has to be kept from over head electricity lines and b) explain why a distance should be kept.</p>
27	<p>Name TWO factors that determine the weight of a load.</p>
28	<p>How can high wind speeds affect MEWP operations?</p>
29	<p>If a scissor type is equipped with extending decks, what does this allow?</p>
30	<p>Using the Operator's Manual, state the figure for the tyre pressures or battery checks procedure. For tracked boom types, state checks that must be made to the track belts. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.</p>
31	<p>Before climbing or descending a slope, what FOUR checks should be made?</p>
32	<p>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?</p>
33	<p>When or why would foam-filled tyres be specified for platform operations?</p>

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34	If travelling near an open trench which has a depth of 2 metres, what is the minimum distance to maintain?
35	What is meant by a bi-fuel MEWP?
36	Give THREE reasons that may cause a boom-type MEWP to tip forwards.
37	If setting up to work near a bank, what is the recommended distance between the stabilisers or wheels and the top of the bank?
38	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?
39	a) What is meant by the working range of the MEWP and b) who determines it?
40	What would happen if the steering axle is to the rear of the direction for travel?
41	When checking fluid levels, why must gloves be worn?
42	State the purpose of the check valve(s) located on the boom or scissor cylinder ram (or rams) circuit.
43	When checking a (fall protection) harness, name FIVE possible defects that may be found.
44	Apart from the operator, who else may need to use the machine's Operator's Manual?
45	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.

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No.	Question
46	Give FOUR reasons that may cause the MEWP to tip over sideways.
47	What is the definition of, or how can a hazard be described?
48	When parking the machine at the end of the shift, name THREE places where the MEWP should NOT be parked.
49	List SIX typical subject areas that should be covered in a site induction.
50	What determines the type of harness that can be worn when operating a MEWP boom?
51	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
52	How can a qualification or card benefit a plant operator?
53	If setting up to lift in a pedestrianised area, state TWO factors that need to be taken into account.
54	If raising the platform up to a ceiling of a structure, why must extra care be taken when nearing the ceiling?
55	When working in a confined area or space with a diesel-powered machine, name THREE dangers that can be present?
56	What is the purpose of a risk assessment?
57	What THREE main duties of the Health and Safety at Work Act must employees follow?

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58	What are the THREE actions that a MEWP operator undertakes during pre-use inspections?
59	What are the possible outcomes of facing prosecution for not complying with legislation and regulations?
60	When setting up for work, what should be in place should machine failure happen?
61	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?
62	What is the difference between: a) a work-restraint system and b) a fall arrest system?
63	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?
64	a) Why should the working height or reach of the task need to be accurately known when selecting a MEWP and b) give TWO possible effects if the figure is inaccurate.
65	Name THREE ways that a hired-in MEWP operator can contribute to ensuring repeat business with the client or principal contractor.
66	a) What is the purpose of a Method Statement and b) what is required of the operator?