

# Technical Test Theory

## Multi Service Vehicle - MSV



No.	Question
1	Name FOUR components and/or operating systems that are a statutory requirement on a MSV?
2	Give TWO purposes for showing a red light?
3	What is the process for a) refuelling a diesel MSV and b) what control measures need to be in place?
4	Name THREE types of communication.
5	What could affect the steering or braking of the MSV?
6	What distance should the front and rear lights be visible from?
7	What can limit the number of diesel-powered MSVs at any given times underground?
8	After completing a manoeuvre requiring the use of crab steer, what must the operator confirm before resuming normal travel?
9	Name FOUR actions to be taken when approaching and passing personnel in a tunnel?
10	List SIX typical subject areas that should be covered in a site induction.
11	Name FOUR materials or substances found on a typical MSV that can contribute to a fire.
12	What would happen if the steering mode of 'crab steer' is selected and the steering wheel rotated clockwise whilst travelling?

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13	When parking, where should the tunnel MSV NOT be parked.
14	When leaving an MSV at the end of the shift, what TWO actions must the operator ensure?
15	What are the additional requirements for a weekend shut down over an end of shift shutdown (where the differences are of over 12 hours)?
16	What is the purpose of a risk assessment?
17	What are the possible outcomes if being prosecuted for not complying with legislation and regulations?
18	Where should the ignition key be kept when a MSV is not is use?
19	Using the manufacturers operators manual state the maximum incline/slope the MSV is capable of travelling across.
20	Guidance states that visibility from the operators' cab should be sufficient to avoid the need for them to prevent what?
21	What is the procedure for moving off?
22	What advantage is gained by increasing the number of falls on a hook block?
23	Why should a tunnel MSV be re-fuelled at the end of the day?
24	On start up, the air pressure on an MSV with pneumatic systems is low. What actions must the operator carry out before work and during work?

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25	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
26	What THREE main duties of the Health and Safety at Work Act must employees follow?
27	Give TWO reasons why the tunnel MSV operator should have an understanding of the type of material being transported.
28	What is the minimum distance that any hot works/grinder operations etc. should be away from the fuelling point of any MSV?
29	a) What are the standard recognised traffic light signal colours when working underground and b) what does each signal colour indicate?
30	What are the THREE actions or stages that an MSV operator undertakes during pre-use inspections
31	Who is ultimately responsible for the safe transportation of loads that are placed into/onto the MSV?
32	The operator has to use a new type of tunnel MSV that they are unfamiliar with, What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
33	What is the emergency signal when driving?
34	If an MSV is fitted with 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?
35	When reporting defects to an MSV, what TWO actions must an MSV operator undertake?
36	Plant operators are generally regarded as 'safety-critical' workers. What does this mean?

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37	Who decides the positioning of the tunnel MSV when being loaded?
38	If two short sharp blasts are sounded on a horn, what does this indicate?
39	Name FIVE control measures that need to be in place when personnel are working in a tunnel?
40	What different forms of communication are used within a tunnel to safely control locomotive movements?
41	What is the recommended emergency stopping distance of a loaded MSV?
42	What is the definition of, or how can a hazard be described?
43	What does the Health and Safety at Work Act require employers to do with regards specifically to plant?
44	Explain the process for removing a broken-down MSV from a tunnel.
45	When traversing in a tunnel, name THREE hazards that can occur.
46	Manual Question- using the manufacturers operator manual identify the pre use inspections to be completed by the operator
47	Name FOUR hazards that can occur with overhanging loads.
48	What do the phrases 'inbye' and 'outbye' mean?

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49	Name FOUR ways that wet weather can affect MSV operations?
50	Name THREE ways that a MSV operator can contribute to ensuring repeat business with the client or main contractor?
51	How can a qualification or card benefit a plant operator?
52	a) What are the FOUR standard horn signals when working underground and b) what does each signal signify?
53	Name FIVE components which need to be checked prior to work commencing.
54	Using the Operator's Manual, state the shut-down procedure for the MSV. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
55	Apart from the operator, who else may need to use the machine's Operator's Manual?
56	What TWO types of information can a MSV speedometer indicate?
57	State THREE instances when an MSV operator should sound an audible warning device.
58	Name FOUR different types or levels of sanctions that can be applied to plant operators who do not comply with, or follow legislation and regulations?
59	a) What is the purpose of a Method Statement and b) what is required of the operator?
60	Why should the limbs of the operator not exceed the confines of the cab when travelling?

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61	Give TWO examples of where The Work at Height Regulations may apply to tunnel locomotives?
62	If operating in the pit bottom: a) what warnings may need to be given and b) when must they be given?
63	Where should the tunnel MSV Operator's Manual be kept and why?
64	Who is permitted to shunt in the pit bottom area?
65	If an MSV develops a fault, who determines how and where it is to be repaired?
66	Name six possible proximity hazards that may be encountered on site when travelling with a load?
67	What is a tunnel MSV operator's main purpose or requirement?
68	What FOUR actions in the correct sequence should be taken in the event of a fire on an MSV?
69	Give TWO reasons why the cab should be kept clear of tools, rubbish etc.?