

Technical test - Practical

Multi Service Vehicle (MSV) – A51



Resources required

Machine	<ul style="list-style-type: none"> Multi Service Vehicle (MSV) Unit, relevant to the endorsement requirements detailed in the notes section.
Area	<ul style="list-style-type: none"> Suitable MSV operating location of the following lengths and areas: <ul style="list-style-type: none"> A haul route distance of at least 150 metres (endorsements A and B) Manoeuvring area suitable for the equipment being used A safe area to allow loading and discharging/unloading of materials underground and/or above ground Restrictions for travelling
Other equipment	<ul style="list-style-type: none"> Machine to load material or resources Signalling and communication devices Specification that includes additional load carrying units which can be used: muck tank, tank, segment trailer, material platform, crane, lifting basket, etc. Additional personnel (designated person) for signalling/communicating duties
Loads	<ul style="list-style-type: none"> Suitable and sufficient tunnelling-type materials or resources for loading and discharging/unloading
Notes	<ul style="list-style-type: none"> The MSV selected for the test must meet the specification for the required endorsement, be in serviceable condition and conform with current legislation Endorsement A - Multi Service Vehicle (MSV) Unit, consisting of a minimum of 2 articulated coupled load carrying units with opposing cabs allowing for operation in both directions (Endorsement B) Endorsement B - Multi Service Vehicle (MSV) Unit non articulated with opposing cabs allowing for operation in both directions The operator's manual must be with the TMSV The tester cannot act as the additional person for signalling duties The person selected for signalling and shunting duties must be competent in those activities The person undertaken the shunting duties shall be restricted to those duties only

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Activity instructions

<p>Sequence</p>	<ul style="list-style-type: none"> • Activity 1, 2 & 3 must be undertaken at the start of the test • Activities 4 to 10 may be taken at any time during the test following the completion of activities 1, 2 & 3 • Activity 13 must be undertaken at the end of the test • Activity 11 must be used in conjunction with activity 4 and 10 <p>This test can be undertaken at different times and at different locations within the same site and can be completed as part of normal working activity. The test must be completed within a given collective time. The specification section gives further information</p>
<p>Preparing for work</p>	<ol style="list-style-type: none"> 1. Complete all manufacturers' pre-start and running checks and prepare the MSV for travel as detailed in the operator's manual which must be referred to by the candidate during the activity <ul style="list-style-type: none"> • Additional information to be identified by the candidate referring to the operator's manual. Tester to decide what information will be identified 2. Agree communication/signalling codes with the additional person 3. Configure and set the Multi Service Vehicle MSV for travel
<p>Travelling & manoeuvring <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> 4. Travel the MSV to a loading point and receive load 5. Travel and reversing loaded and unloaded MSV unit(s) 6. Travel for a minimum of 30 metres and pass through a restriction at the end of the run 7. Carry out an emergency braking activity
<p>Working tasks <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> 8. Position the MSV for loading following given signals 9. Receive loads 10. Discharge/remove loads into given locations following given signals 11. Communicate with the designated person during loading/unloading following given instructions
<p>Completing work</p>	<ol style="list-style-type: none"> 12. Park the MSV following given instructions
<p>Shutting down</p>	<ol style="list-style-type: none"> 13. Carry out shut-down and securing procedures

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Activity instructions (*Continued*)

Notes	<ul style="list-style-type: none"> • If the machine is hot (diesel units), checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions • Emergency braking must be carried out at the site's permitted maximum speed appropriately loaded • At least two methods of signalling and/or communicating shall be used during the test
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Travelling restrictions	<ul style="list-style-type: none"> • 500 mm
Braking distance	<ul style="list-style-type: none"> • Maximum of 10 metres
Travelling with loads	<ul style="list-style-type: none"> • Minimum distance of 100 metres
Loading	<ul style="list-style-type: none"> • Rolling stock to be loaded with suitable tunneling-type materials or resources
Discharging / unloading of loads	<ul style="list-style-type: none"> • Minimum of two difference locations (Activity 11)
Test timings	<ul style="list-style-type: none"> • This test must collectively be completed within 1 hour

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Basic details

Test ref:	Candidate name:
Tester name:	Candidate ref:
Tester ref:	Date of test:
Endorsement: A <input type="checkbox"/> B <input type="checkbox"/>	Start time of test:
Make and model:	Duration:

Mandatory		Correctly carried out during the test?	Y/N
Preparing	1. All pre-start and running checks (or responses to relevant questions)		
	2. Multi Service Vehicle MSV set for travel		
	3. Signal/communication codes agreed with signaller		
Travelling and working tasks	4. Restrictions approached and negotiated		
	5. MSV driven and reversed smoothly		
	6. Control maintained when carrying out emergency braking and within specified distance		
	7. Comply with given speed limits		
	8. Candidate fully within operating cab/area		
	9. Safe place selected during loading/unloading		
	10. Appropriate speed used when approaching loading and discharging points		
	11. Instructions followed during loading/unloading		
	12. Signals adhered to at all times		
	13. Communicated effectively with relevant personnel during all activities		
	14. Safety systems procedures followed		
Completing work	15. Ensured loads are secure		
	16. Multi Service Vehicle MSV parked in given location following given signals		
Shutdown	17. Multi Service Vehicle MSV parked according to given instructions		
	18. All shutdown and securing procedures		
Other	19. Legislation, manufacturers' and health and safety requirements complied with		
	20. Test completed within the given time		

All of these items must be awarded Achieved / Not achieved

Faults		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1. MSV mounting and dismounting			1	
	2. Identify information from the Operator's Manual			2	
	3. Full observation before moving and reversing			3	
	4. Full observation whilst travelling			2	
	5. Travel speed matched to the track type and conditions			3	
	6. Transmission drive engaged smoothly from rest			2	
Working	7. MSV positioned correctly for loading and unloading			2	
	8. Use of directional lights			2	
	9. Smooth use of braking controls			1	
Not exceeded eight penalties			Total penalties		
Achieved / Not achieved					