

Advanced On-Site Assessment

Motorised scraper - A24



Resources required

Machine	<ul style="list-style-type: none">• Motorised Scraper
Area	<ul style="list-style-type: none">• An excavation area of at least 30 metres x 5 metres with sufficient area for spoil depositing, transporting and stockpile forming, clear of hazards which must include:<ul style="list-style-type: none">- level area for excavating and depositing loads- rough terrain- slope or slopes
Other equipment	<ul style="list-style-type: none">• Pushing assistance• Items to create restrictions for manoeuvring• Laser equipped measuring equipment to ensure trench specifications are met
Notes	<ul style="list-style-type: none">• The machine selected for the test must be in serviceable condition and conform with current legislation• The operator's manual must be with the scraper• The slope must have at least an 18% (1:5.5) incline• The nominated area must be safe to allow excavations up to 2 metres deep and 30 metres long

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Activity instructions

<p>Sequence</p>	<ul style="list-style-type: none"> • Activity 1 must be undertaken at the start of the test • Activities 2, 5 and 6 can be undertaken at any time during the test • Activity 7 must be undertaken at the end of the test <p>The test must be completed within a given time. The specifications' 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 scraper 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
<p>Travelling & manoeuvring <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> 2. Travel to the work area and: <ul style="list-style-type: none"> - travel up and down the slope including starting and stopping - pass through a restriction - travel over rough terrain 3. Reverse into a restricted area
<p>Setting up for work</p>	<ol style="list-style-type: none"> 4. Prepare and set the scraper for the relevant work
<p>Working tasks <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> 5. Demonstrate self-loading by topsoil stripping a shallow cut of 300 mm over an excavation area, feathering out at the end of the cut, leaving a level bottom. Haul to a stockpiling area and dump the arisings to one side in a single width windrow 6. Return to the cut and continue excavating shallow cuts over the same area to the final depth whilst being push loaded. Haul the material to the stockpiling area and dump the material in layers to form a mound
<p>Shutting down</p>	<ol style="list-style-type: none"> 7. Park the scraper and carry out shut-down and securing procedures
<p>Notes</p>	<ul style="list-style-type: none"> • A pusher machine must be used for activity 6 • If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions

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Activity measurements

Travel restrictions	<ul style="list-style-type: none">• 800 mm
Reversing procedures	<ul style="list-style-type: none">• 800 mm
Excavation area	<ul style="list-style-type: none">• 30 metres x 5 metres
Excavation depth	<ul style="list-style-type: none">• 600 mm
Test timings	<ul style="list-style-type: none">• The test must be completed within 1 hour 30 mins

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Basic details

Test ref:	Candidate name:
Tester name:	Candidate ref:
Tester ref:	Date of test:
Make and model:	Start time of test:
	Duration:

Mandatory	Correctly carried out during the test?	Y/N
Preparing	1 All pre-start and running checks as per manufacturers' operating handbook (or responses to relevant questions)	
Travelling	2 Scraper set for travel	
	3 Restrictions cleared	
	4 Encountered hazards cleared	
Setting up	5 Control maintained when ascending and descending inclines	
	6 Allocated area checked and clear of hazards prior to excavating or controlled as per risk assessment	
Working	7 Positioned accurately within the cut	
	8 Bowl filled to capacity	
	9 Depth of cut controlled	
	10 No of runs	
	11 Procedure when using pusher machine	
	12 Minimised wheel spin	
Shutdown	13 Maintained stability	
	14 Excavated area reinstated back to the original contours	
Other	15 All shutdown and securing procedures	
	16 Legislation, manufacturers' and health and safety requirements complied with	
	17 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 Scraper 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 and reversing		2	
	5 Travel speed matched to the ground type and conditions		1	
	6 Control of throttle and gear selection		2	
Working	7 Fill area entered at appropriate speed		1	
	8 Feather out at the end of each cut		2	
	9 Site and set for excavating		2	
	10 Trench excavated in layers		1	
	11 Ejector and bowl height reset after depositing each load		2	
	12 Loads discharged in a continuous layer		1	
	13 Smooth use of steering and hydraulic controls		2	
	14 Sequence of using steering/hydraulic controls		1	

Not exceeded five penalties

Total penalties

Achieved / Not achieved