

Technical test - Practical

Ride on roller - A31

Resources required

Machine	<ul style="list-style-type: none"> Ride-on Roller
Area	<ul style="list-style-type: none"> (Option 1) Single straight run for compacting, with hard-standing, kerbed edge on one side and an unsupported edge on the opposite side OR (Option 2) Several straight runs for compacting, with hard-standing, kerbed edge on one run and an unsupported edge on another run PLUS A radius for compacting, with supported edges PLUS A length of uneven ground and a gentle gradient (for travelling purposes)
Other equipment	<ul style="list-style-type: none"> Material for compacting Items/objects to create restrictions for manoeuvring
Notes	<ul style="list-style-type: none"> The machine selected for the test must be in serviceable condition, fitted with a seatbelt and ROPS frame/cab, and conform with current legislation The operator's manual must be with the ride-on roller The single straight run (Option 1) must be at least 20 metres in length and no less than 4 x the drum width. 15 metres of each run must be uncompacted and the remaining may form part of the hard standing Each straight run (Option 2) must be at least 20 metres in length and 1.5 x the drum width of the roller respectively. 15 metres of each run must be uncompacted and the remaining may form part of the hard standing The radius must have a curve of between 5 and 10 metres and 4 x the drum width and at least 3 kerb lengths of straight run at each end The radius must form part of one of the straight runs and the compacted area situated on the outside of the radius The width of the compaction area must be no less than 4 x the width of the drum of the roller to be used The material selected for compacting must clearly show areas compacted by the roller such as overlaps and direction changes The uneven ground must be safe for travelling on but be of a nature that forces the candidate to travel a slow speed The test is designed to reflect general granular sub-base type compaction, not bitumen rolling

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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, 4 and 5 can be undertaken in any order during the test • Activity 6 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>	<p>1. Complete all manufacturers' pre-start and running checks and prepare the ride-on roller for travel as detailed in the operator's manual which must be referred to by the candidate during the activity</p> <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>	<p>2. Travel to the work area and:</p> <ul style="list-style-type: none"> - pass through a restriction (in forward and reverse) - drive up and down the gradient <ul style="list-style-type: none"> • Stop and start on the gradient whilst travelling uphill • Stop and start on the gradient whilst travelling downhill - drive on the uneven ground
<p>Setting up for work</p>	<p>3. Prepare an exclusion zone and set the ride-on roller for the relevant work</p>
<p>Working tasks <i>(refer to specifications)</i></p>	<p>4. Compact a straight run with supporting and un-supporting edges applying 3 passes. Several objects must be placed on one of the runs (simulating ironwork)</p> <p>5. Compact a radius with supporting edge applying 3 passes</p>
<p>Shutting down</p>	<p>6. Park the ride-on roller and carry out shut-down and securing procedures</p>
<p>Notes</p>	<ul style="list-style-type: none"> • Compaction must take place up to the supported and unsupported edges, although the closeness will be dependent upon the roller and material type • For the purposes of the test, an overlap will be constituted as no more or less than one quarter of the overall drum width • For the purposes of the test, a pass is constituted as compacting in one direction and returning in the same track • 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">• 500 mm
Compacting duty	<ul style="list-style-type: none">• A rolling pass comprises of compacting in one direction using the dead rolling method and returning on the same path using the vibratory across the width of the of the material to be rolled
Test timings	<ul style="list-style-type: none">• The test must be completed within 1 hour

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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 (or responses to relevant questions)	
	2 Identify and select correct PPE and weather-related equipment to be worn	
Travelling	3 Seatbelt worn	
	4 Roller set for travel	
	5 Restrictions and hazards cleared	
	6 Control maintained when travelling on uneven ground	
Setting up	7 Control maintained when travelling on gradient or ramp	
	8 Compacting area checked, segregated and clear of hazards prior to work	
	9 Sited and set for compacting duties	
Working	10 Start position for rolling pass	
	11 Travel speed during compaction	
	12 Avoided stopping on uncompacted material	
	13 Compacted in straight lines (straight runs only)	
	14 Stopping points staggered	
	15 Safe distance from sides of unsupported edges maintained	
	16 Overlapped spread material when compacting	
Shutdown	17 All areas compacted to given specification as per activity measurements	
	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 Ride-on roller 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 matching ground type and conditions		1	
Working	6 Control of throttle /speed selection		1	
	7 Deploying of vibration system (if available)		1	
	8 Overlap of passes by correct amount		2	
	9 Repositioning on compacted/hard standing areas		2	
	10 Impacting supported edges		2	
	11 No scuffing of the surface		2	
	12 Minimising short working cycles		2	
	13 Smooth use of steering and hydraulic controls		2	
Not exceeded eight penalties		Total penalties		

Achieved / Not achieved