

Ride-on Roller

A31

Technical Test – Practical

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 <p>OR</p> <ul style="list-style-type: none"> (Option 2) Several straight runs for compacting, with hard-standing, kerbed edge on one run and an unsupported edge on another run <p>PLUS</p> <ul style="list-style-type: none"> A radius for compacting, with supported edges <p>PLUS</p> <ul style="list-style-type: none"> 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 3 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 3 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 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

ACTIVITY

Instructions

Sequence	<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>
Preparing for work	1 Complete all manufacturers' pre-start and running checks and prepare the ride-on roller for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area and: <ul style="list-style-type: none"> – pass through a restriction (in forward and reverse) – drive up and down the gradient – drive on the uneven ground
Setting up for work	3 Prepare an exclusion zone and set the ride-on roller for the relevant work
Working tasks (refer to specifications)	4 Compact the straight run or runs. Several objects must be placed on one of the runs (simulating ironwork) 5 Compact the radius
Shutting down	6 Park the ride-on roller and carry out shut-down and securing procedures
Notes	<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

Activity measurements

Travel restrictions	<ul style="list-style-type: none"> 500 mm
Compacting duty	<ul style="list-style-type: none"> Three passes without vibration followed by six passes using vibration (if fitted)
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)		
Travelling	2 Seatbelt worn		
	3 Roller set for travel		
	4 Restrictions and hazards cleared		
	5 Control maintained when travelling on uneven ground		
Setting up	6 Control maintained when travelling on gradient or ramp		
	7 Compacting area checked, segregated and clear of hazards prior to work		
Working	8 Sited and set for compacting duties		
	9 Start position for rolling pass		
	10 Travel speed during compaction		
	11 Avoided stopping on uncompacted material		
	12 Compacted in straight lines (straight runs only)		
	13 Stopping points staggered		
	14 Safe distance from sides of unsupported edges maintained		
Shutdown	15 Overlapped spread material when compacting		
	16 All areas compacted to given specification as per activity measurements		
Other	17 All shutdown and securing procedures		
	18 Legislation, manufacturers' and health and safety requirements complied with		
	19 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	Full observation before moving and reversing		3	
	3	Full observation whilst travelling and reversing		2	
	4	Travel speed matching ground type and conditions		1	
Working	5	Control of throttle /speed selection		1	
	6	Deploying of vibration system (if available)		1	
	7	Overlap of passes by correct amount		2	
	8	Repositioning on compacted/hard standing areas		2	
	9	Impacting supported edges		2	
	10	No scuffing of the surface		2	
	11	Minimising short working cycles		2	
	12	Smooth use of steering and hydraulic controls		2	
Not exceeded 8 penalties			Total penalties		
			Achieved / Not achieved		

