

Wheeled Loading Shovel

A21

Technical Test – Practical

RESOURCES

Required

Machine	<ul style="list-style-type: none"> • Wheeled Loading Shovel with: <ul style="list-style-type: none"> – a general purpose bucket
Area	<ul style="list-style-type: none"> • Ground, clear of hazards which must include: <ul style="list-style-type: none"> – rough terrain – slope or slopes – mound or bank of material suitable for extraction – a straight run for reversing
Other equipment	<ul style="list-style-type: none"> • Load-carrying vehicle for spoil/material • Items to create restrictions for manoeuvring
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 machine • The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit • The load carrying vehicle must be rear tipping, have a minimum capacity equivalent to 4 full bucket loads of the loading shovel being used for the test • There must be sufficient quantity of material from the bank or mound for all the activities

ACTIVITY

Instructions

Sequence	<ul style="list-style-type: none"> • Activity 1 must be undertaken at the start of the test • Activity 2 can be undertaken at any time during the test • Activities 4 and 5 can be undertaken in any order • 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>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the loading shovel for travel
Travelling & manoeuvring (refer to specifications)	2. In a loaded and unloaded state: <ul style="list-style-type: none"> – travel up and down the slope – stop and start on the slope in the up direction – stop and start on the slope in the down direction – travel over rough terrain – reverse (loaded only) in a straight line for a minimum of 30 metres and pass through a restriction at the end of the run
Setting up for work	3. Prepare and set the loading shovel for the relevant work
Working tasks (refer to specifications)	4. Using material from the bank, create an upward ramp 5. Load material into a vehicle
Completing work	6. Clean and tidy the work area
Shutting down	7. Park the loading shovel and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> • 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"> • 800 mm
Ramp length	<ul style="list-style-type: none"> • 1.5 times the length of the loading shovel
Ramp width	<ul style="list-style-type: none"> • At least 1.5 times the width of the bucket
Ramp incline	<ul style="list-style-type: none"> • Minimum of 18% (1. 5.5)
Loading vehicle	<ul style="list-style-type: none"> • Minimum of eight full bucket loads (vehicle can be re-loaded to achieve this figure)
Test timings	<ul style="list-style-type: none"> • The test must be completed within 1 hour and 45 minutes

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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 Loading shovel set for travel		
	3 Restrictions and hazards cleared		
	4 Full control maintained when ascending and descending slopes		
	5 No opposite movement of intended direction when restarting on slopes		
	6 Travel direction on slopes		
Setting up	7 Straight line kept during reversing activity		
	8 Allocated area checked and clear of hazards prior to extracting and loading		
Working	9 Ramp created to specification		
	10 Loading vehicle positioning prior to loading		
	11 Vehicle loaded to specification		
	12 Vehicle evenly loaded but not overloaded		
	13 Spillage of material kept to minimum		
Completing	14 Loading shovel stable during activities		
	15 Working area cleaned after loading		
Shutdown	16 All shutdown and securing procedures		
Other	17 Legislation, manufacturers' and health and safety requirements complied with		
	18 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 Loading shovel mounting and dismounting		1	
	2 Full observation before moving and reversing		2	
	3 Full observation whilst travelling		3	
	4 Transmission drive engaged smoothly		1	
	5 Travel speed matched to the ground type and conditions		2	
Working	6 Bucket kept low at all times (except during loading work)		2	
	7 Wheel spin minimised		1	
	8 Full bucket loads maintained (except for cleaning work)		2	
	9 Material cleanly placed into the loading vehicle		2	
	10 Contact with vehicle avoided when loading		2	
	11 Use of steering/braking/hydraulic controls		1	
Not exceeded 8 penalties			Total penalties	
				Achieved / Not achieved

