

Advanced On-Site Assessment

Wheeled loading shovel - A21



Resources required

<p>Machine</p>	<ul style="list-style-type: none"> • Wheeled Loading Shovel with: <ul style="list-style-type: none"> - A minimum unladen operating weight of 12000kg fitted with a general-purpose bucket - Wheeled articulated chassis containing a centrally mounted operating position - Non telescopic arms, mounted on the front section of the machine
<p>Area</p>	<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
<p>Other equipment</p>	<ul style="list-style-type: none"> • Load-carrying vehicle for spoil/material • Items to create restrictions for manoeuvring
<p>Notes</p>	<ul style="list-style-type: none"> • The machine selected for the test must be in serviceable condition and conform with current legislation • The bucket to be used in the test is to be of a size that meets the manufacturers specification • The operator's manual and all other related supporting documents such as risk assessment etc. must be with the machine • The slope must have at least an 18% (1:5.5) incline • 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

Advanced On-Site Assessment

Wheeled loading shovel - A21

Activity instructions



<p>Sequence</p>	<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>
<p>Preparing for work</p>	<p>1. Complete all manufacturers' pre-start and running checks and prepare the loading shovel 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. In a loaded and unloaded state:</p> <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 and pass through a restricted chicane using full left-and right-hand steering lock - reverse (loaded only) in a straight line for a minimum of 30 metres and pass through a restriction at the end of the run - reverse the machine up to a structure (unaided)
<p>Setting up for work</p>	<p>3. Prepare and set the loading shovel for the relevant work</p>
<p>Working tasks <i>(refer to specifications)</i></p>	<p>4. Using material from the bank, create an upward ramp</p> <p>5. Load material into a vehicle</p>
<p>Completing work</p>	<p>6. Clean and tidy the work area</p>
<p>Shutting down</p>	<p>7. Park the loading shovel and carry out shut-down and securing procedures</p>
<p>Notes</p>	<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

Advanced On-Site Assessment

Wheeled loading shovel - A21



Activity measurements

Travel restrictions	<ul style="list-style-type: none">• 600 mm
Reversing to structure dimensions	<ul style="list-style-type: none">• No more than the distance equivalent to $\frac{1}{2}$ the wheelbase of the machine
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

Advanced On-Site Assessment

Wheeled loading shovel - A21



AN NOCN JOB CARD

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 the manufacturers' operating handbook (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	
	7 Straight line kept during reversing activity	
	8 Reversed up to structure within specification	
Setting up	9 Allocated area checked and clear of hazards prior to extracting and loading or controlled as per risk assessment	
Working	10 Ramp created to specification	
	11 Loading vehicle positioning prior to loading	
	12 Vehicle loaded to specification	
	13 Vehicle evenly loaded but not overloaded	
	14 Spillage of material kept to minimum	
	15 Loading shovel stable during activities	
Completing	16 Working area cleaned after loading	
Shutdown	17 All shutdown and securing procedures	
Other	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 Loading shovel mounting and dismounting		1	
	2 Identify information from the Operator's Manual		2	
	3 Full observation before moving and reversing		2	
	4 Full observation whilst travelling		3	
	5 Transmission drive engaged smoothly		1	
	6 Travel speed matched to the ground type and conditions		2	
Working	7 Bucket kept low at all times (except during loading work)		2	
	8 Wheel spin minimised		1	
	9 Full bucket loads maintained (except for cleaning work)		2	
	10 Material cleanly placed into the loading vehicle		2	
	11 Contact with vehicle avoided when loading		2	
	12 Use of steering/braking/hydraulic controls		1	
Not exceeded five penalties		Total penalties		

Achieved / Not achieved