

# Advanced technical test - Practical Excavator 180 above 5 tonne - A12

## Resources required - Additional

	<ul style="list-style-type: none"> <li>• The machine must have a minimum operating weight of 7 tonne</li> <li>• The excavator must have a side-shifting carriage for the backhoe unit</li> </ul>
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## Activity instructions - Additional

	<ul style="list-style-type: none"> <li>• Excavate 2 x trenches at right angles (replaces Activity 4). The candidate must mark out the excavating area (although assistance may be sought from the tester e.g. holding string lines etc.)</li> <li>• On completion of new Activity 4, excavate 2 x 90 degree feeder trenches with square ends with 1 x trench starting from midpoint of one of the 4 metre trenches and 1 x trench starting at the end of the same trench. These trenches <b>must</b> be excavated towards the open trench of new Activity 4</li> <li>• Side-shift the backhoe carriage from one side to the other</li> <li>• (Additional to Activity 5) Once the vehicle has been loaded, the spoil must be tipped and replaced into the vehicle using the front loader only</li> </ul>
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## Activity measurements - Additional

<b>Travel restrictions</b>	<ul style="list-style-type: none"> <li>• 500 mm</li> </ul>
<b>Trench depth</b>	<ul style="list-style-type: none"> <li>• 1.0 metre <math>\pm 25</math> mm and straight within <math>\pm 50</math> mm</li> </ul>
<b>Trench length</b>	<ul style="list-style-type: none"> <li>• 2 x right angled trenches – 4 metres</li> <li>• 2 x feeder trenches – 3 metres</li> </ul>
<b>Test timings</b>	<ul style="list-style-type: none"> <li>• The test must be completed within 2 hours and 20 minutes</li> </ul>

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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:

<b>Mandatory</b>	<b>Correctly carried out during the test?</b>	<b>Y/N</b>
<b>Preparing</b>	1 All pre-start and running checks (or responses to relevant questions)	
<b>Travelling</b>	2 Excavator set for travel	
	3 Restrictions cleared	
	4 Encountered hazards cleared	
	5 Travel direction on slopes	
	6 Full control maintained when travelling on slopes	
<b>Setting up</b>	7 Allocated area checked and clear of hazards prior to each activity	
<b>Working</b>	8 Excavator laterally level whilst excavating	
	9 Excavated material clear of trench	
	10 Trenches conformed to the stated sizes and tolerances with unbroken sides	
	11 Full bucket loads when excavating (except for finishing work) and loading	
	12 Loading vehicle and excavator position prior to loading	
	13 Vehicle evenly loaded but not overloaded	
	14 Deposited load fully re-loaded into vehicle	
	15 Excavator stability maintained	
	16 Existing bucket removed and replacement bucket installed	
	17 Excavator position prior to lifting loads	
	18 SWL not exceeded at all times	
	19 Lifted, moved and lowered load in a controlled manner	
	20 Stability of the machine maintained at all times	
21 Excavated area reinstated back to the original state using all functions of clamshell		
<b>Shutdown</b>	22 All shut down and securing procedures	
<b>Other</b>	23 Legislation, manufacturers' and health and safety requirements complied with	
	24 Test completed within the given time	

<b>Faults</b>	<b>All of these items must be awarded Candidate incorrectly carried out the following:</b>	<b>Achieved / Not achieved</b>		
		<b>Fault</b>	<b>Mark</b>	<b>Penalty</b>
<b>Travelling</b>	1 Excavator mounting and dismounting		1	
	2 Identified information from the Operator's Manual		2	
	3 Full observation before moving and reversing		3	
	4 Maintaining full observation whilst travelling and reversing		2	
	5 Matching travel speed to the ground type and conditions		1	
	6 Selecting appropriate gear ratios		1	
	7 Front loader low but clear of ground when travelling		2	
	8 Boom and dipper extension locked		2	
	9 Positioning and setting for excavating		1	
<b>Working</b>	10 Excavating trench in layers		1	
	11 Sideswiping with the bucket		2	
	12 Edges of the excavations clean and clear		1	
	13 Placing material cleanly into the loading vehicle		2	
	14 Not using front loader below ground level when loading		2	
	15 Minimising contact with vehicle when loading		2	
	16 Load placing within given tolerances		2	
	17 Keeping load height within given tolerance		1	
	18 Smooth use of steering, hydraulic, braking and transmission controls		2	
<b>Not exceeded five penalties</b>		<b>Total penalties</b>		
				<b>Achieved / Not achieved</b>