

# Technical test - Practical

## Crawler - tractor/dozer - A34



### Resources required

<b>Machine</b>	<ul style="list-style-type: none"> <li>• Crawler Dozer fitted with a suitable blade for the activities</li> </ul>
<b>Area</b>	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>- level area for excavating</li> <li>- embankment</li> <li>- rough terrain</li> <li>- slope or slopes</li> </ul> </li> </ul>
<b>Other equipment</b>	<ul style="list-style-type: none"> <li>• Items to create restrictions for manoeuvring</li> <li>• Laser equipped measuring equipment to ensure trench specifications are met</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the dozer</li> <li>• 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</li> <li>• The nominated area must be safe to allow excavations up to 2 metres deep and 30 metres long</li> <li>• The embankment must be at least 30 metres in length</li> </ul>

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### Activity instructions

<p><b>Sequence</b></p>	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 2, 4 and 5 can be undertaken at any time during the test</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information</p>
<p><b>Preparing for work</b></p>	<ol style="list-style-type: none"> <li>1. Complete all manufacturers' pre-start and running checks and prepare the dozer for travel as detailed in the operator's manual which must be referred to by the candidate during the activity             <ul style="list-style-type: none"> <li>• Additional information to be identified by the candidate referring to the operator's manual. Tester to decide what information will be identified</li> </ul> </li> </ol>
<p><b>Travelling &amp; manoeuvring</b> <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> <li>2. Travel to the work area and:             <ul style="list-style-type: none"> <li>- travel up and down the slope</li> <li>- pass through a restriction</li> <li>- travel over rough terrain</li> </ul> </li> </ol>
<p><b>Setting up for work</b></p>	<ol style="list-style-type: none"> <li>3. Prepare and set the dozer for the relevant work</li> </ol>
<p><b>Working tasks</b> <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> <li>4. Produce a straight trench to the specified dimensions and form a stockpile</li> <li>5. Side cast material from the embankment to the specified dimensions</li> <li>6. Reinststate the work area back to the original state</li> </ol>
<p><b>Shutting down</b></p>	<ol style="list-style-type: none"> <li>7. Park the dozer and carry out shut-down and securing procedures</li> </ol>
<p><b>Notes</b></p>	<ul style="list-style-type: none"> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

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## Activity measurements

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<b>Travel restrictions</b>	<ul style="list-style-type: none"><li>• 800 mm</li></ul>
<b>Trench depth</b>	<ul style="list-style-type: none"><li>• 1.0 metre <math>\pm 35</math> mm and straight within <math>\pm 60</math> mm</li></ul>
<b>Trench length</b>	<ul style="list-style-type: none"><li>• Level area – minimum of 10 metres in length</li></ul>
<b>Embankment</b>	<ul style="list-style-type: none"><li>• 1 x blade width for a minimum length of 30 metres</li></ul>
<b>Test timings</b>	<ul style="list-style-type: none"><li>• The test must be completed within 2 hours and 45 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 Dozer set for travel		
	3 Restrictions and hazards cleared		
	4 Control maintained when ascending and descending inclines		
<b>Setting up</b>	5 Allocated area checked and clear of hazards prior to excavating		
<b>Working</b>	6 Full blade loads maintained (except for finishing work)		
	7 Depth of cut controlled		
	8 Trench conformed to the stated sizes and tolerances		
	9 Embankment trimmed to specification		
	10 Short cycles of work maintained		
	11 Blade lowered and adjusted smoothly during work		
	12 Material feathered out after the cut		
	13 Excavated area reinstated back to the original contours		
<b>Shutdown</b>	14 All shutdown and securing procedures		
<b>Other</b>	15 Legislation, manufacturers' and health and safety requirements complied with		
	16 Test completed within the given time		

**All of these items must be awarded** Achieved / Not achieved

<b>Faults</b>		<b>Candidate incorrectly carried out the following:</b>	<b>Fault</b>	<b>Mark</b>	<b>Penalty</b>
<b>Travelling</b>	1 Dozer 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 matched to the ground type and conditions			1	
<b>Working</b>	6 Control of throttle and gear selection			2	
	7 Tight turns avoided when travelling			1	
	8 Site and set for excavating			2	
	9 Trench excavated in layers			2	
	10 Back-blading with the blade			2	
	11 Single stockpile formed at end of trench			2	
	12 Overrunning after dumping load			2	
	13 Smooth use of steering and hydraulic controls			1	
	14 Sequence of using steering/hydraulic controls			1	
<b>Not exceeded eight penalties</b>			<b>Total penalties</b>		
					<span style="border: 1px solid black; padding: 2px;">Achieved / Not achieved</span>