

# Advanced On-Site Assessment

## Grader - A19



### Resources required

<b>Machine</b>	<ul style="list-style-type: none"> <li>• Grader with centrally-mounted blade</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 grading activities</li> <li>- rough terrain</li> <li>- slope or slopes</li> <li>- bank of suitable material</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 earthmoving 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 and all other related supporting documents such as risk assessments etc. must be with the grader</li> <li>• The level area must be at least 30 metres in length and 3 x the blade width</li> <li>• The bank must be at least 15 metres in length</li> <li>• The slope must have at least an 18% (1:5.5) incline</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 grader 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 grader 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. Trim the bank to an agreed angle</li> <li>5. Grade and level an area to specification</li> <li>6. Form a straight V shaped ditch and discharge the cut material to one side in a windrow</li> <li>7. Reinststate the work area to level</li> </ol>
<p><b>Shutting down</b></p>	<ol style="list-style-type: none"> <li>8. Park the grader 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>V-ditch length and depth</b>	<ul style="list-style-type: none"><li>• 20 metres in length and a depth of at least 0.4 metre <math>\pm 25</math> mm</li></ul>
<b>Bank grading</b>	<ul style="list-style-type: none"><li>• 10 metres minimum to <math>\pm 25</math> mm</li></ul>
<b>Level grading</b>	<ul style="list-style-type: none"><li>• 20 metres in length and 3 x the blade width to <math>\pm 25</math> mm</li></ul>
<b>Test timings</b>	<ul style="list-style-type: none"><li>• The test must be completed within 1 hour</li></ul>

# Technical test - Practical

## Grader - A19



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:

<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 as per the manufacturers' operating handbook (or responses to relevant questions)	
<b>Travelling</b>	2 Grader set for travel	
	3 Restrictions cleared	
	4 Encountered hazards cleared	
	5 Control maintained when ascending and descending inclines	
<b>Setting up</b>	6 Allocated area checked and clear of hazards prior to grading or controlled as per risk assessment	
	7 Grader set for required work	
	8 Mouldboard set to required position for banking and level work	
<b>Working</b>	9 Bank profile constant and met given specification and tolerances	
	10 Level area graded and conformed to the stated sizes and tolerances	
	11 No contact between mouldboard and machine	
	12 Excavated area reinstated to level	
<b>Shutdown</b>	13 All shut down and securing procedures	
<b>Other</b>	14 Legislation, manufacturers' and health and safety requirements complied with	
	15 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 Grader 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		2	
	5 Mouldboard within machine confines when travelling		1	
	6 Travel speed matched to the ground type and conditions		1	
	7 Mouldboard lowered whilst moving		1	
<b>Working</b>	8 Area graded in layers		2	
	9 Feathering out at the end of the cut		2	
	10 Smooth use of steering/braking/hydraulic controls		2	
	11 Sequence of steering/braking/hydraulic controls		1	
<b>Not exceeded five penalties</b>		<b>Total penalties</b>		

Achieved / Not achieved