

# Advanced On-Site Assessment

## Crawler crane – A02

### Resources required

<b>Machine</b>	<ul style="list-style-type: none"> <li>• Crawler crane</li> </ul>
<b>Area</b>	<ul style="list-style-type: none"> <li>• Facilities for crane travel and parking</li> <li>• Flat area to allow lifting and placing of loads</li> <li>• Facilities for out-of-sight lifts to take place</li> </ul>
<b>Other equipment</b>	<ul style="list-style-type: none"> <li>• Measuring tape for measuring the maximum radius of the crane</li> <li>• Slinger and Signaller</li> <li>• Applicable lifting accessories for all loads</li> <li>• Radio communication</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
<b>Loads</b>	<ul style="list-style-type: none"> <li>• <b>LOAD 1</b> 1 x load being a minimum 50% load at 75% of maximum radius of the crane</li> <li>• <b>LOAD 2</b> 1 x load being within the duties chart for current configuration</li> <li>• <b>LOAD 3</b> 1 x load being a tube or structure not less than 6 metres in length</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• The machine selected for the test must meet the specification, 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 crane</li> <li>• Duties charts for the crane being used for the test must be available for use</li> <li>• The slinger and signaller must be certificated and competent</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of all loads must be known</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 6–11 can be undertaken in any order</li> <li>• Activities 9 and 11 may be incorporated during activities 6, 7 or 8</li> <li>• Activity 14 must be undertaken at the end of the test</li> </ul> <p>The test must be completed collectively within a given time. The specification's 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 crane 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 and manoeuvring</b> <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> <li>2. Travel to the work area</li> <li>3. Manoeuvre through a restriction</li> </ol>
<p><b>Setting up for work</b></p>	<ol style="list-style-type: none"> <li>4. Prepare and set the crane for each lift</li> </ol>
<p><b>Working tasks</b> <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> <li>5. Lift LOAD 1 which must be at 75% of maximum radius, and land at minimum radius at a designated place then land the load at mid radius at a designated place</li> <li>6. Lift LOAD 3, rotate for at least 270 degrees and land at a designated place</li> <li>7. Lift LOAD 3 which must be at ground level and at minimum radius and rotate for a minimum of 360 degrees maintaining minimum radius. Land at a designated place</li> <li>8. Lift a load from a given point and land in a designated place out of sight of the candidate (can be completed during any lift)</li> <li>9. Lift LOAD 2 using two falls of rope from a designated position and travel with the load suspended for at least 10 metres. Whilst travelling, execute a 90 degree angle turn</li> <li>10. Recover simulated 2 metre load swings</li> </ol>
<p><b>Completing</b></p>	<ol style="list-style-type: none"> <li>11. All loads to be made safe following each activity</li> <li>12. On completion of all lifting activities, configure the crane for travel</li> </ol>
<p><b>Shutting down</b></p>	<ol style="list-style-type: none"> <li>13. Park the crane and carry out shut-down and securing procedures</li> </ol>
<p><b>Notes</b></p>	<ul style="list-style-type: none"> <li>• The instructor must ensure that the candidate has programmed the RCI correctly before carrying out each activity</li> </ul>

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### Activity instructions (*Continued*)

<p><b>Notes</b> (<i>Continued</i>)</p>	<ul style="list-style-type: none"> <li>• On activities 6, 7 and 8, the load must follow the ground contours and able to be handled by the slinger/signaller</li> <li>• Activity 11 shall consist of a minimum of 1 x swing in a left to right plane and a minimum of 1 x swing in a forward to reverse plane</li> <li>• Activity 9 must be undertaken twice – once using had signals and once using radio communication. All other lifts may be undertaken using either radio or hand signals</li> <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

<p><b>Manoeuvring restriction</b></p>	<ul style="list-style-type: none"> <li>• Maximum of the width of the crane plus 600 mm</li> </ul>
<p><b>Load placing</b></p>	<ul style="list-style-type: none"> <li>• To be landed within 100 mm of a designated place</li> </ul>
<p><b>Load swing</b></p>	<ul style="list-style-type: none"> <li>• To be corrected within 3 moves</li> </ul>
<p><b>Test timings</b></p>	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour</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:

Mandatory	Correctly carried out during the test?	Y/N
<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 Crane set for travel	
	3 Restrictions cleared	
	4 Faced direction of travel	
<b>Setting up</b>	5 Encountered hazards cleared	
	6 Area checked and safe prior to setting up for lifting and depositing loads or controlled as per risk assessment	
	7 Crane positioned prior to lifting loads	
	8 Ensured crane was level prior to lifting loads	
	9 RCI programmed for all lifting duties	
<b>Working</b>	10 Communication arrangements confirmed with the signaller	
	11 Turntable locked/braked prior to travelling with a suspended load	
	12 SWL not exceeded at all times	
	13 Load integrity and stability maintained at all times	
	14 Loads did not contact any obstructions	
	15 Lifted, moved and lowered all loads in a controlled manner	
<b>Completing</b>	16 Route assessed and travelled with the suspended load in a controlled manner	
	17 Instructions conformed with	
<b>Shutdown</b>	18 Crane re-configured from lifting to travelling duties	
	19 Parked in appropriate place	
<b>Other</b>	20 All shut down and securing procedures	
	21 Legislation, manufacturers' and health and safety requirements complied with	
	22 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
<b>Travelling</b>	1 Crane mounting and dismounting		1	
	2 Identified information from the Operator's Manual		2	
	3 Full observation before moving and reversing (where applicable)		3	
	4 Full observation whilst travelling		2	
	5 Full observation before slewing the upper structure		2	
	6 Keeping lifting accessories clear of the ground		1	
	7 Keeping load swings within 0.5 of a metre / rectify swinging		2	
<b>Working</b>	8 Placing all loads at the given points within the given tolerance		2	
	9 Lifting each load clear of surface and checking for integrity		2	
	10 Lifting all loads vertically		2	
	11 Sequence of using lifting controls		2	
	12 Smooth use of steering and lifting controls		1	
<b>Not exceeded five penalties</b>		<b>Total penalties</b>		
				Achieved / Not achieved