

# Slinger/Signaller

A40

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Lifting Equipment (Crane)</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards with:             <ul style="list-style-type: none"> <li>– sufficient area of at least the maximum operating radius of the crane</li> <li>– a structure allowing loads to be placed out of sight of the crane operator's cab</li> <li>– a flat area to allow lifting and placing of loads</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Measuring tape for measuring the maximum radius of the crane</li> <li>• Applicable lifting accessories for all loads with appropriate certification</li> <li>• Radios for verbal communication</li> <li>• Examples of the following for an identification activity:             <ul style="list-style-type: none"> <li>– 2 x unserviceable and 1 x serviceable web sling</li> <li>– 1 x unserviceable and 1 x serviceable chain sling</li> <li>– 1 x unserviceable and 1 x serviceable wire rope</li> <li>– 1 x out-of-date certificate</li> </ul> </li> <li>• Marking equipment or tags to identify unserviceable lifting accessories</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• <b>LOAD 1</b> 1 x balanced</li> <li>• <b>LOAD 2</b> 1 x unbalanced</li> <li>• <b>LOAD 3</b> 1 x bundled at least 4 metres in length</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The crane selected for the test must be in serviceable condition, be equipped with a drum hoist and rope, have 360 degree slew capability on a turntable and able to vary the radii from minimum to maximum</li> <li>• The operator's manual must be with the crane</li> <li>• Maximum radius equates to the configuration of the crane being used for the test</li> <li>• The crane operator must be certificated and competent</li> <li>• All lifting accessories for LOADS 1, 2 and 3 must be fit for purpose, certificated and made available to the candidate</li> <li>• The unserviceable lifting accessories selected for the identification activity must have at least one visual defect</li> <li>• The weight of all loads must be known</li> </ul>

## ACTIVITY

**Instructions**

Sequence	<ul style="list-style-type: none"> <li>Activities 2 and 3 can be undertaken at any time during the test</li> <li>Activities 8–10 can be undertaken in any order</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	<ol style="list-style-type: none"> <li>1. Check equipment for function and serviceability</li> <li>2. From two or more examples each of a web sling, chain sling and wire rope, identify and impound all unserviceable items</li> <li>3. From at least two examples of lifting equipment certification, identify certification not meeting current legislation or regulations</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>4. Establish the weight and features of each load prior to lifting</li> <li>5. Establish communication methods (visual and with radios) with the crane operator</li> <li>6. Select the relevant lifting accessory for the load to be lifted</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>7. Attach the selected lifting accessory and prepare each load for lifting</li> <li>8. Lift LOAD 1 from ground level, guide and land in a designated place out of sight of the crane operator. When landed, return the load to the original start point, land at a designated place and detach the accessory</li> <li>9. Lift LOAD 2 from ground level, guide to maximum radius of the crane, slew for at least 180 degrees and land at a designated place which is at mid-radius. When landed, detach the accessory</li> <li>10. Lift LOAD 3 from ground level, guide to minimum radius of the crane, slew for at least 360 degrees and land at a designated place which involves a change of radius. When landed, detach the accessory</li> </ol>
Completing work	<ol style="list-style-type: none"> <li>11. All loads to be made safe following each activity</li> <li>12. Collect and store all lifting accessories</li> </ol>
Notes	<ul style="list-style-type: none"> <li>Activity 8 must be undertaken twice, once using radio communication and once using hand signals</li> <li>For the purposes of the test, all hand communication shall conform with BS 7121: Part 1 2000</li> </ul>

**Activity measurements**

Load placing	<ul style="list-style-type: none"> <li>To be landed within 100 mm of a designated place</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 1 hour and 45 minutes</li> </ul>

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## Technical Test – Practical

<b>Basic details</b>	Test reference	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 Checked all accessories for function and serviceability		
	2 Checked certification is in-date and applied to relevant accessory		
	3 Unserviceable accessories identified		
	4 Unserviceable accessories impounded/clearly marked		
	5 Certification not in date identified		
Setting up	6 Landing positions checked and safe prior to lifting and depositing loads		
	7 Intended load travel route clear of hazards		
	8 Communication procedures established with others involved with the lift		
	9 Weight and C of G of each load established		
Working tasks	10 Relevant lifting accessories selected for each load		
	11 Lifting accessories attached to each load		
	12 SWL or WLL of lifting accessories not exceeded at all times		
	13 Load integrity and stability maintained at all times		
	14 Loads did not contact any obstructions		
	15 Communication clear and precise and understood by all involved		
	16 Crane hoist line vertical as each lift commences		
	17 Loads not damaged during lifting, moving and placing		
	18 Load kept under control during movement		
Completing	19 Loads secure and stable after removing accessories		
	20 Lifting accessories removed and stored		
Other	21 Legislation, manufacturers' and health and safety requirements complied with		
	22 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1 Full observation before moving the load			2	
	2 Full observation whilst guiding and landing the load			2	
Working	3 Load placing at the given points within the given tolerance			3	
	4 Lifting accessories clearing the ground			2	
	5 Each load lifted clear of surface for checking integrity prior to moving			3	
	6 Loads level during lifting and moving			2	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved

