

# Technical test - Practical

## Crane / Lifting

### Operations supervisor - A62



#### Resources required

<b>Machine</b>	<ul style="list-style-type: none"> <li>Lifting equipment (crane) having a varying radii and slewing facility</li> </ul>
<b>Area</b>	<ul style="list-style-type: none"> <li>Ground, clear of hazards which must include facilities/obstruction to enable a load to be placed out of sight of the crane operator</li> </ul>
<b>Other equipment</b>	<ul style="list-style-type: none"> <li>A selection of serviceable certificated lifting accessories, in excess of what is required for the load</li> <li>An anemometer</li> <li>A pre-constructed lift plan</li> </ul>
<b>Loads</b>	<ul style="list-style-type: none"> <li>1 x bundled load that does not have fixed lifting points</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>The crane selected for the test must be not less than 25 tonnes lift capacity, hoist rope equipped, be in a serviceable condition and conform with current legislation</li> <li>All lifting accessories must be fit-for-purpose and certificated</li> <li>The weight of all loads must be known</li> <li>The crane operator and the slinger and signaller must be certificated and competent</li> <li>The Instructor conducting this test must construct a lift plan using the CPCS Lifting Operations Risk Assessment/Method Statement template. The plan must be constructed incorporating the working area, type of lifting equipment (crane) and the requirements of the exercises detailed in the activity and must: <ul style="list-style-type: none"> <li>involve a boom angle change of not less than 30 degrees and slewed at least through 180 degrees. The load will be landed at a different point from the pick-up point and within a location that is out-of-site of the crane operator</li> <li>contain the actual lifting accessories required for the load</li> <li>state that the working area must be cordoned off</li> <li>contain a maximum wind speed for operations shut down</li> </ul> </li> <li>The completed lift plan must then be passed to the candidate at the start of the test</li> </ul>

<p><b>Sequence</b></p>	<ul style="list-style-type: none"> <li>The sequence of events shall be in numerical order</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information</p>
<p><b>Preparation of work area</b></p>	<ol style="list-style-type: none"> <li>Receive and study the lift plan</li> <li>Ensure all personnel involved in the lifting operation are suitably qualified, suitable attired and inform them of their duties</li> <li>Prepare the area of operation</li> </ol>
<p><b>Setting up for work</b></p>	<ol style="list-style-type: none"> <li>Mark the position of the crane and guide the crane from the site entry point to the required location (the crane must be a minimum of 10 metres away from the lift point)</li> <li>Ensure that the crane is fit-for-purpose and suitably certificated</li> <li>Identify the weight of the load and its characteristic</li> <li>Check landing area and mark exact position for landing the load</li> </ol>
<p><b>Working tasks</b> <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> <li>Indicate to the slinger the position of lifting accessories on the load</li> <li>Ensure accessories attached as per lift plan</li> <li>Check integrity of the load</li> <li>Ensure load is moved and landed as per lift plan</li> <li>During the moving of the load, demonstrate the action of an emergency stop</li> </ol>
<p><b>Completing work</b></p>	<ol style="list-style-type: none"> <li>Ensure load is safe and accessories returned to storage</li> <li>Debrief all personnel involved in the lifting operation, and verbally report aspects of the lift to the Appointed Person</li> <li>Guide the crane from the lift position back to the site access point</li> </ol>
<p><b>Notes</b></p>	<ul style="list-style-type: none"> <li>During the test, the Tester will undertake the role of the Appointed Person</li> <li>All hand signals must conform with BS 7121 Part 1</li> </ul>

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## Activity measurements

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<b>Test timings</b>	<ul style="list-style-type: none"><li>• The test must be completed within 1 hour and 30 minutes</li></ul>
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#### Risk assessment



**Note:** This form can only be used for the purposes of CPCS appointed person and crane supervisor training, assessments and testing, and is used with kind permission of the Construction Plant-Hire Association.

A drawing showing the lift details must accompany this form. All boxes **MUST** be completed with either the required information or marked N/A.

Drawings must show plan and elevation and be in an identifiable scale

**Important – All submitted data must be in metric units.**

Assessment scenario No:	Date of assessment:
Candidate Name:	Location of assessment

### 1. General details

Customer:	
Site contact:	Telephone:
Site location:	
Description of lift:	

### 2. Details of load

Weight:	Net
	Gross
Dimensions	
Position of C of G:	
Height of lift	
Max radius	

### 3. Details of crane

Make and model:
Capacity:

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#### Details of crane (Continued)



Boom length required:
Fly jib length and angle (if required) or N/A:
Outrigger spread: <i>(show dimensions on drawing)</i>
Mat/Pad size: <i>(show all calculations)</i>
Rigged weight of crane (Inc. extra ballast):

#### 4. Ground conditions

Access/egress for crane and transport:
Lifting position:

#### 5. Lifting accessories

Sling (wire rope):	Slings (webbing):
Slings (chains):	Shackles:
Other accessories:	

#### 6. A: Identifications of hazards (proximity)

Proximity hazards	Present?	Proximity hazards	Present?
Overhead power lines	Yes/No	Confined working area	Yes/No
Other overhead obstacles	Yes/No	Restricted access – width	Yes/No
Underground services	Yes/No	Restricted access – height	Yes/No
Excavations	Yes/No	Other vehicles	Yes/No
Unstable/Soft ground	Yes/No	Other Hazards identified	Yes/No
Hazardous chemicals/materials	Yes/No		

#### 6. B: Identifications of hazards (load)

Load hazard	Present?	Load hazard	Present?
Slinging difficulties	Yes/No	Sharp edges	Yes/No
Top heavy	Yes/No	Other hazards identified	Yes/No

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**7. Assessment of risk**



Hazard present	Risk	Action to avoid or reduce risk

Continue on separate sheet if needed.



What crane should come equipped with:

**9. Customer provisions**

**Method statement**

**10. Personnel**

The following personnel (please state) will be provided, complete with relevant personal protective equipment. The duties of these people will be as defined in British Standard 7121:

Title	Responsibility	Required PPE

Continue on separate sheet if needed.

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**11. Lifting accessories**



The lifting accessories will be provided by: *(please name)*.....

**12. Weather conditions**

The lifting operation can only take place if the weather conditions are within the limits recommended by:

*(please state)*.....

**13. Ground conditions**

The ground bearings are *(please state)*.....and I have obtained assurances that the ground can withstand the load.

**14. Sequence of operations**

Please start at 1 and number each action consecutively.

No	Description



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AN NOCN JOB CARD

No	Description

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No	Description

Continue on separate sheet if needed.

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**15. Contingency statement**



**16. Candidate's confirmation\***

I confirm that I have prepared the Risk assessment and Method statement, and the lift has been planned in accordance with current legislation and British Standard 7121

**Signed:**  
.....  
.....

**Dated:**  
.....  
.....

**Note:\*** For the purposes of Crane Supervisor Training and Testing, the Instructor shall sign this section.

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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
Preparing	1 Prepared and ensured area is safe and prepared for work		
	2 Fully briefed all additional personnel on the details of the lift		
	3 Agreed the signal codes with all personnel involved with the lift		
	4 Checked the suitability and qualifications of additional personnel		
Setting up	5 Marked the position of the crane		
	6 Guided the crane to the exact position for setting up		
	7 Checked the landing area prior to the lift taking place		
	8 Verified the set-up configuration of the crane		
	9 Verified relevant certification for the crane and lifting accessories		
	10 Verified the RCI settings with the load and radius		
	11 Checked the route for hazards and ensured the area was safe		
	12 Identified the weight and centre of gravity of the load		
	13 Checked the environmental conditions prior to the lift taking place		
Working	14 Ensured that the lifting accessory(ies) attached to the load		
	15 Used effective hand signals that conformed to the agreed code		
	16 Ensured that the load landed where required		
	17 Ensured load integrity		
Completing	18 Ensured all lifting accessories removed and stored		
Other	19 Complied with Lift plan requirements		
	20 Conformed with legislation, regulations and Codes of Practice		
	21 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
Working	1 Guide the crane to the site access point	3	
	2 Tag lines were deployed and used	2	
	3 Check that all personnel have correct PPE	5	
	4 Debriefing not carried out to all personnel	3	
	5 No report aspects of the lift to the AP	2	
Not exceeded eight penalties		Total penalties	

Achieved / Not achieved