

Compact Crane

A66

Up to 10 tonnes

Technical Test – Practical

RESOURCES

Required

Machine	<ul style="list-style-type: none"> • Compact crane having: <ul style="list-style-type: none"> Endorsement A <i>Static-stabilisers</i> <ul style="list-style-type: none"> – 4 outriggers minimum – 360 degree slewing upper structure – Telescopic boom – Hoist rope Endorsement B <i>Mobile Industrial</i> <ul style="list-style-type: none"> – Capability for pick-and-carry duties – Wheeled or tracked chassis – Non-slewing Telescopic boom Endorsement C <i>Luffing Static duties</i> <ul style="list-style-type: none"> – Trailer or vehicle mounted – 4 outriggers minimum – 360 degree slewing upper structure – Telescopic boom with luffing extension – Hoist rope Endorsement D <i>360 – Pick and Carry</i> <ul style="list-style-type: none"> – Telescopic boom – 360 degree slewing upper structure – Wheeled or tracked chassis – Capability for static and pick-and-carry duties – Hoist rope
Area	<ul style="list-style-type: none"> • Facilities for crane travel and parking • Flat area to allow lifting and placing of loads • Facilities for out-of-sight lifts to take place • Incline or inclines (for Endorsements A and D only)
Other equipment	<ul style="list-style-type: none"> • Measuring tape for measuring the maximum radius of the crane • Slinger and Signaller • Applicable lifting accessories for all loads • Radio communication • Items to create restrictions manoeuvring
Loads	<ul style="list-style-type: none"> • LOAD 1 1 x load being a minimum 50% load at 75% full radius of the crane (excluding the extension) • LOAD 2 1 x load being a tube or structure not less than 4 metres in length • LOAD 3 1 x load being at least 75% of the crane's rated capacity

continued...

RESOURCES CONTINUED

Notes	<ul style="list-style-type: none"> • The machine selected for the test must meet the specification for the required endorsement, be in serviceable condition and conform with current legislation • The operator’s manual must be with the crane • Duties charts for the crane being used for the test must be available for use • The slinger/signaller must be certificated and competent • All lifting accessories must be fit for purpose and certificated • The weight of all loads must be known • The incline must be narrow and not less than 18%, with a defined fulcrum between the horizontal and the angled planes, and no more than 100 mm clearance between the machine and the sides of the incline.
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ACTIVITY

Instructions

Sequence	<ul style="list-style-type: none"> • Activity 1 must be undertaken at the start of the test • Activities 6–11 can be undertaken in any order • Activities 3 and 4 may be undertaken before or after activities 6–11 • Activity 11 may be incorporated within activities 6–10 • Activity 15 must be undertaken at the end of the test <p>The test must be completed within a given time. The specifications’ section gives further information.</p>
Preparing for work	1 Complete all manufacturers’ pre-start and running checks and prepare the crane for travel
Travelling & manoeuvring (refer to specifications)	2 Travel or manoeuvre to the work area 3 Endorsement A and D – travel up and down the incline
Setting up for work	4 Endorsement B – manoeuvre through a chicane executing full right- and left-hand turns of at least 90 degrees in a forward and reverse direction 5 Endorsements A and D – execute full right- and left-hand turns of at least 90 degrees 6 Position, prepare and set the crane for each lift

continued...

ACTIVITY CONTINUED

Working tasks (refer to specifications)	<p>7 All endorsements – lift LOAD 1 which must be at 75% of maximum radius, and land at minimum radius at a designated place</p> <p>8 Endorsements A and D only – lift LOAD 2 which must be at ground level and minimum radius, rotate for at least 270 degrees keeping the load at a constant height and land in a designated place. On completion return the load to the original start place and land in a designated place</p> <p>9 Endorsement B only – lift LOAD 2 and travel with the load suspended for a minimum distance of 15 metres whilst travelling the route as in activity 4 in both forward and reverse directions</p> <p>10 Endorsement C only – lift LOAD 1 and land at a designated place at two different places using the full reach of the luffing jib. On completion on landing the load, return the load to the original start place</p> <p>11 Endorsements A and D only – lift LOAD 3 from a designated position, rotate for at least 270 degrees, and land at a designated place which involves a change of radius</p> <p>12 Endorsements B and D only – lift LOAD 3 and travel with the load suspended for a minimum distance of 10 metres whilst executing turns as in activity 4 or 5 respectively</p> <p>13 Endorsements A, C and D only – lift and move a load from a given position and land in a designated place out-of-sight of the Candidate</p> <p>14 All loads to be made safe following each activity</p> <p>15 On completion of all lifting activities, configure the crane for travel</p>
Shutting down	15 Park the crane and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> • The Tester must ensure that the Candidate has programmed the RCI or LMI correctly before carrying out each activity • On activities 7, 8, 11 and 13, the load must follow the ground contours and able to be handled by the slinger/signaller • Activity 13 must be undertaken twice – once using hand signals and once using radio communication. All other lifts may be undertaken using either radio or hand signals • For the purposes of the test, all hand signals shall conform with BS 7121 Part 1:2006 • Activity 13 may be incorporated with activities 7, 8, 10 or 11 • If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions

Activity measurements

Manoeuvring	<ul style="list-style-type: none"> • Activity 9 – maximum clearance less than 100 mm or 10% of the machine's width (the greater applies) between the chicane sides and the crane, when undertaking each turn
Load placing	<ul style="list-style-type: none"> • To be landed within 100 mm of a given position
Load swing	<ul style="list-style-type: none"> • To be corrected within 3 moves
Test timings	<ul style="list-style-type: none"> • The test must be completed within 1 hour and 45 minutes

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Basic details	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Endorsement A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/>	Start time of test
	Make and model	Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
	2 Setting the crane correctly for travel		
Travelling	3 Restrictions cleared		
	4 Encountered hazards cleared		
Setting up	5 Area checked and safe prior to setting up for lifting and depositing loads		
	6 Crane positioned prior to lifting loads		
	7 Stabilisers set (A & C only)		
	8 Ensured crane was level prior to lifting loads		
	9 RCI/LMI programmed for all lifting duties		
Working	10 Communication arrangements confirmed with the signaller		
	11 SWL not exceeded at all times		
	12 Load integrity and stability maintained at all times		
	13 Loads did not contact any obstructions		
	14 Lift, move and lower all loads in a controlled manner		
	15 Route assessed and travelled with the suspended load in a controlled manner (Endorsements B and D only)		
	16 Instructions conformed with		
Shutdown	17 Crane re-configured from lifting to travelling duties		
	18 Parked in appropriate place		
Other	19 All shutdown and securing procedures		
	20 Legislation, manufacturers' and health and safety requirements complied with		
	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
Travelling	1 Crane mounting and dismounting (ride-on units)			1	
	2 Full observation before moving and reversing			3	
	3 Full observation whilst travelling			2	
	4 Full observation before slewing the upper structure or telescoping boom			2	
	5 Lifting accessories kept clear of the ground			1	
Working	6 Load swings kept within 0.5 of a metre / rectify swinging			2	
	7 All loads placed at the given points within the given tolerance			2	
	8 Each load lifted clear of surface and checked for integrity			2	
	9 All loads lifted vertically			2	
	10 Sequence of using lifting controls			2	
	11 Smooth use of steering and lifting controls			1	
Not exceeded 8 penalties				Total penalties	
					Achieved / Not achieved

Tester observations

Sign off	<p>I confirm that I, the candidate have undertaken the test and I, the tester have carried out the Practical Technical Test Advanced in accordance with CPCS requirements and that the candidate has:</p> <p style="text-align: right;">Achieved <input type="checkbox"/> Not achieved <input type="checkbox"/></p>
	<p>Candidate signature: _____</p>
	<p>Tester signature: _____</p>

CITB-ConstructionSkills Grant claim details	<p>Grant is only payable for the award of a full Technical Test or Advanced Technical Test pass (both practical and theory elements to a maximum of 2 categories in any Grant Scheme year) in accordance with the full Grant Scheme rules.</p>
	<p>Employer does not intend to claim a Technical Test pass grant <input type="checkbox"/> No further information required</p>
	<p>Employer does intend to claim a Technical Test pass grant <input type="checkbox"/> Please complete additional fields below</p>
	<p>CITB-ConstructionSkills Levy Grant Registration Number (7 digits) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>
	<p>Employer Name _____</p>
<p>Employer Postcode _____</p>	

Internal use	
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