

Technical test - Practical

Lorry loader - A36



Resources required

Machine	<ul style="list-style-type: none"> Lorry Loader mounted on a host carrier vehicle
Area	<ul style="list-style-type: none"> Facilities for vehicle travel and parking Flat firm area to allow lifting and placing of loads
Other equipment	<ul style="list-style-type: none"> Measuring tape for measuring the maximum radius of the crane Applicable lifting accessories to lift and secure all loads Items to create restrictions for manoeuvring Measuring equipment to determine radius
Loads	<ul style="list-style-type: none"> Load 1 <ul style="list-style-type: none"> Hook - 1 x load at least 75% of the crane's maximum rated capacity Clamshell bucket - 4 FULL bucket loads of a spoil-type material Hydraulic clamp - 1 x load at least 75% of the crane's maximum rated capacity Load 2 <ul style="list-style-type: none"> Hook - 1 x load at least 5 metres in length with an offset centre of gravity Clamshell bucket - 4 FULL bucket loads of a spoil-type material Hydraulic clamp - 1 x load with an offset centre of gravity Load 3 <ul style="list-style-type: none"> Hook - 1 x load at least 75% of the crane's maximum rated capacity at full horizontal reach Clamshell bucket - 4 bucket loads of a spoil-type material Hydraulic clamp - 1 x load at least 75% of the crane's maximum rated capacity at full horizontal reach
Notes	<ul style="list-style-type: none"> The crane selected for the test must have at least a lifting capacity of 4 tonnes/metre (tm), meet the specification for the required endorsement, be in serviceable condition and conform with current legislation The host vehicle selected for the test must be able to carry and transport the required loads, be in serviceable condition and conform with current legislation Maximum radius equates to the configuration of the crane being used for the test The operator's manuals for both host vehicle and crane must be available All lifting accessories must be fit for purpose and certificated The persons attaching/detaching and securing loads to the hook must be trained in selecting and using the relevant lifting accessories The weight of all loads must be known

Activity instructions

Sequence	<ul style="list-style-type: none"> Activity 1 must be undertaken at the start of the test Activity 4 may be undertaken loaded or unloaded and undertaken at any time during the test Activity 10 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	<ol style="list-style-type: none"> Complete all manufacturers' pre-start and running checks as detailed in the operator's manual which must be referred to by the candidate during the activity <ul style="list-style-type: none"> Additional information to be identified by the candidate referring to the operator's manual. Tester to decide what information will be identified
Travelling & manoeuvring (refer to specifications)	<ol style="list-style-type: none"> Prepare the vehicle and crane for road travel (loaded and unloaded) Travel to and within the work area (loaded and unloaded) Reverse into a confined space
Setting up for work	<ol style="list-style-type: none"> Position the vehicle, prepare and set the crane and load for each lift
Working tasks (refer to specifications)	<ol style="list-style-type: none"> Lift LOADS 1, 2 and 3 and place onto the vehicle bed (see notes below) Secure all loads in preparation for travel Remove and place LOADS 1, 2 and 3 (to different locations from activity 6) Stow all equipment and return the vehicle to the park position
Shutting down	<ol style="list-style-type: none"> Park the vehicle and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> Load 1 <ul style="list-style-type: none"> Hook - Lifted at minimum radius and placed in a given position Clamshell bucket - Lifted at minimum radius on the nearside of the vehicle and placed at the rear of the body Hydraulic clamp - Lifted at minimum radius and placed in a given position Load 2 <ul style="list-style-type: none"> Hook - Lifted at minimum radius from the opposite side from Load 1 and placed in a given position Clamshell bucket - Lifted at minimum radius on the offside of the vehicle and placed at the front of the body Hydraulic clamp - Lifted at minimum radius from the opposite side from Load 1 and placed in a given position

Activity instructions (*Continued*)

Notes <i>(Continued)</i>	<ul style="list-style-type: none"> • Load 3 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">Hook</td> <td style="padding-left: 20px;">- 1 x load at least 75% of the crane's maximum reach and placed in a given position</td> </tr> <tr> <td style="padding-left: 20px;">Clamshell bucket</td> <td style="padding-left: 20px;">- Lifted at least 75% of the crane's maximum reach and placed in the centre of the body</td> </tr> <tr> <td style="padding-left: 20px;">Hydraulic clamp</td> <td style="padding-left: 20px;">- 1 x load at least 75% of the crane's maximum reach and placed in a given position</td> </tr> </table> <ul style="list-style-type: none"> • The Tester must check that the Candidate has programmed the RCI/LMI correctly before carrying out each activity (if applicable) • If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions 	Hook	- 1 x load at least 75% of the crane's maximum reach and placed in a given position	Clamshell bucket	- Lifted at least 75% of the crane's maximum reach and placed in the centre of the body	Hydraulic clamp	- 1 x load at least 75% of the crane's maximum reach and placed in a given position
Hook	- 1 x load at least 75% of the crane's maximum reach and placed in a given position						
Clamshell bucket	- Lifted at least 75% of the crane's maximum reach and placed in the centre of the body						
Hydraulic clamp	- 1 x load at least 75% of the crane's maximum reach and placed in a given position						

Activity measurements

Reversing restriction	<ul style="list-style-type: none"> • No wider than the width of the vehicle plus 900 mm
Load placing	<ul style="list-style-type: none"> • 100 mm of a given position
Test timings	<ul style="list-style-type: none"> • The test must be completed within 1 hour and 20 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"/>	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 – vehicle, loader and attachment)		
Travelling	2 Vehicle and crane set for road travel		
	3 Stabilisers fully stowed and locked		
	4 Restrictions and hazards cleared		
Setting up	5 Area checked and safe prior to setting up for lifting and depositing loads		
	6 Vehicle positioning prior to lifting loads		
	7 Area secured		
	8 Stabilisers set		
	9 Ensured vehicle was level prior to lifting loads		
	10 Selected and assessed the appropriate lifting accessories (Endorsement A only)		
Working	11 Engaged pump drive systems (if applicable)		
	12 Vehicle stability maintained at all times		
	13 Load integrity and stability maintained at all times		
	14 Loads did not contact any obstructions		
	15 Loads kept low to ground (except when directly next to vehicle body)		
	16 Lifted, moved and placed all loads in a controlled manner		
	17 Loads secured and stable on vehicle bed/in tipping body		
	18 Crane re-configuring from lifting to travelling duties		
Shutdown	19 Parked in appropriate place		
	20 All shutdown and securing procedures		
Other	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
Travelling	1 Vehicle 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 Full observation before slewing the crane			2	
	6 Gear ratios appropriate for travel speeds			1	
	7 Controlled load swings			2	
	8 Lifting accessories kept clear of the ground			1	
Working	9 Full bucket loads maintained (except to avoid exceeding SWL)			2	
	10 All loads placed at the given points within the given tolerance			2	
	11 Each load lifted clear of surface and checked for integrity			2	
	12 All loads vertically lifted			2	
	13 Sequence of using hydraulic/lifting controls			2	
	14 Smooth use of the steering, braking and hydraulic controls			1	
Not exceeded eight penalties			Total penalties		
					Achieved / Not achieved