

Technical test - Practical

Crawler - tractor/side boom - A35



Resources required

Machine	<ul style="list-style-type: none"> • Crawler-tractor chassis with side-boom equipment
Area	<ul style="list-style-type: none"> • Ground with level and uneven terrain • Trench of at least 1 metre deep for the placing of steel piping
Other equipment	<ul style="list-style-type: none"> • Lifting accessories for the piping • Items to create restrictions for manoeuvring • Slinger/signaller assistance
Loads	<ul style="list-style-type: none"> • Steel piping
Notes	<ul style="list-style-type: none"> • conform with current legislation • The steel piping must be a minimum of 4 metres long and at least 0.5 of a metre in diameter • The operator's manual must be with the side boom • Maximum radius equates to the configuration of the crane being used for the test • The slinger and signaller must be certificated and competent • All lifting accessories must be fit for purpose and certificated • The weight of all loads must be known

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Activity instructions

<p>Sequence</p>	<ul style="list-style-type: none"> • Activity 1 must be undertaken at the start of the test • Activity 9 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>
<p>Preparing for work</p>	<ol style="list-style-type: none"> 1. 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
<p>Travelling & manoeuvring <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> 2. Prepare the side boom for travel 3. Travel to the work area and: <ul style="list-style-type: none"> - travel up and down the slope - pass through a restriction - travel over rough terrain
<p>Setting up for work</p>	<ol style="list-style-type: none"> 4. Position, prepare and set the side boom for each lift
<p>Working tasks <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> 5. Pick up the pipe and travel over rough terrain before arriving at the trench 6. Deposit the pipe into the trench at a given position following given signals. On completion, detach the pipe 7. Attach and remove the pipe from the trench and place back at the original start point
<p>Completing work</p>	<ol style="list-style-type: none"> 8. Stow all equipment and return the vehicle to the park position
<p>Shutting down</p>	<ol style="list-style-type: none"> 9. Park the side boom and carry out shut-down and securing procedures
<p>Notes</p>	<ul style="list-style-type: none"> • The instructor must check that the candidate has programmed the RCI or load moment indicator correctly before carrying out each activity • On activity 6, there must be a change of radius when placing the pipe into the trench • If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions

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Activity measurements

Reversing restriction	<ul style="list-style-type: none">• 800 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 2 hours and 45 minutes

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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 All pre-start and running checks (or responses to relevant questions)	
Travelling	2 Side boom set for travel	
	3 Restrictions cleared	
	4 Travelled safely with load	
	5 Encountered hazards cleared	
Setting up	6 Area checked and safe prior to setting up for lifting and depositing loads	
	7 Ensured ground conditions and lifting and placement site	
	8 Side boom positioning prior to lifting loads	
	9 Ensured side boom was level prior to lifting loads	
	10 RCI/LMI programmed for all lifting duties	
	11 Communication arrangements confirmed with the signaller	
Working	12 SWL not exceeded at all times	
	13 Load integrity and stability maintained at all times	
	14 Loads did not contact any obstructions	
	15 Load placed in a retrievable position (no free-fall)	
	16 Lifted, moved and lowered all loads in a controlled manner	
	17 Route assessed and travelled with the suspended load in a controlled manner	
	18 Instructions conformed with	
Completing	19 All lifting accessories stowed and secure	
Shutdown	20 Parked in appropriate place	
	21 All shutdown and securing procedures	
Other	22 Legislation, manufacturers' and health and safety requirements complied with	
	23 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 Side boom 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 Drive sprockets kept to rear when travelling		1	
	6 Lifting accessories clear of the ground		1	
	7 Travel speeds match ground type and conditions		2	
Working	8 Load placing at the given points within the given tolerance		2	
	9 Checking load for integrity prior to travel		2	
	10 Lifting load vertically		2	
	11 Load lowering control		2	
	12 Sequence of using hydraulic/lifting controls		2	
	13 Smooth use of the steering, braking and hydraulic controls		1	

Not exceeded eight penalties

Total penalties

Achieved / Not achieved