

Crawler-Tractor/Side Boom

A35

Technical Test – Practical

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"> • The machine selected for the test must be in serviceable condition and 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

ACTIVITY

Instructions

Sequence	<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>
Preparing for work	1 Complete all manufacturers' pre-start and running checks
Travelling & manoeuvring (refer to specifications)	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
Setting up for work	4 Position, prepare and set the side boom for each lift
Working tasks (refer to specifications)	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
Completing work	8 Stow all equipment and return the vehicle to the park position
Shutting down	9 Park the side boom and carry out shut-down and securing procedures
Notes	<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

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 15 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		
Working	11 Communication arrangements confirmed with the signaller		
	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	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Drive sprockets kept to rear when travelling		1	
	5	Lifting accessories clear of the ground		1	
	6	Travel speeds match ground type and conditions		2	
Working	7	Load placing at the given points within the given tolerance		2	
	8	Checking load for integrity prior to travel		2	
	9	Lifting load vertically		2	
	10	Load lowering control		2	
	11	Sequence of using hydraulic/lifting controls		2	
	12	Smooth use of the steering, braking and hydraulic controls		1	
Not exceeded 8 penalties			Total penalties		
					Achieved / Not achieved

