

Crawler-Tractor/Dozer

A34

Technical Test – Practical

RESOURCES

Required

Machine	<ul style="list-style-type: none"> • Crawler Dozer fitted with a standard, tilting blade
Area	<ul style="list-style-type: none"> • Ground, clear of hazards which must include: <ul style="list-style-type: none"> – level area for excavating – embankment – rough terrain – slope or slopes
Other equipment	<ul style="list-style-type: none"> • Items to create restrictions for manoeuvring • Laser equipped measuring equipment to ensure trench specifications are met
Notes	<ul style="list-style-type: none"> • The machine selected for the test must be in serviceable condition and conform with current legislation • The operator's manual must be with the dozer • The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit • The nominated area must be safe to allow excavations up to 2 metres deep and 30 metres long • The embankment must be at least 30 metres in length

ACTIVITY

Instructions

Sequence	<ul style="list-style-type: none"> • Activity 1 must be undertaken at the start of the test • Activities 2, 4 and 5 can be undertaken at any time during the test • Activity 7 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 dozer for travel
Travelling & manoeuvring (refer to specifications)	2 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	3 Prepare and set the dozer for the relevant work
Working tasks (refer to specifications)	4 Produce a straight trench to the specified dimensions and form a stockpile 5 Side cast material from the embankment to the specified dimensions 6 Reinststate the work area back to the original state
Shutting down	7 Park the dozer and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> • 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

Travel restrictions	<ul style="list-style-type: none"> • 800 mm
Trench depth	<ul style="list-style-type: none"> • 1.0 metre ± 35 mm and straight within ± 60 mm
Trench length	<ul style="list-style-type: none"> • Level area – minimum of 10 metres in length
Embankment	<ul style="list-style-type: none"> • 1 x blade width for a minimum length of 30 metres
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)		
	2 Dozer set for travel		
Travelling	3 Restrictions and hazards cleared		
	4 Control maintained when ascending and descending inclines		
Setting up	5 Allocated area checked and clear of hazards prior to excavating		
Working	6 Full blade loads maintained (except for finishing work)		
	7 Depth of cut controlled		
	8 Trench conformed to the stated sizes and tolerances		
	9 Embankment trimmed to specification		
	10 Short cycles of work maintained		
	11 Blade lowered and adjusted smoothly during work		
	12 Material feathered out after the cut		
Shutdown	13 Excavated area reinstated back to the original contours		
Other	14 All shutdown and securing procedures		
	15 Legislation, manufacturers' and health and safety requirements complied with		
	16 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 Dozer mounting and dismounting			1	
	2 Full observation before moving and reversing			3	
	3 Full observation whilst travelling and reversing			2	
	4 Travel speed matched to the ground type and conditions			1	
Working	5 Control of throttle and gear selection			2	
	6 Tight turns avoided when travelling			1	
	7 Site and set for excavating			2	
	8 Trench excavated in layers			2	
	9 Back-blading with the blade			2	
	10 Single stockpile formed at end of trench			2	
	11 Overrunning after dumping load			2	
	12 Smooth use of steering and hydraulic controls			1	
	13 Sequence of using steering/hydraulic controls			1	
Not exceeded 8 penalties			Total penalties		
			Achieved / Not achieved		

