

Technical test - Practical

Trencher - A37



Resources required

Machine	<ul style="list-style-type: none"> • Trencher
Area	<ul style="list-style-type: none"> • Ground, clear of hazards which must include: <ul style="list-style-type: none"> - level area and inclines to allow excavations up to 2.0 metres deep - rough terrain - slope or slopes
Other equipment	<ul style="list-style-type: none"> • Load-carrying vehicle for spoil/material (optional) • 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 meet the specification for the required endorsement, be in serviceable condition and conform with current legislation • The operator's manual must be with the excavator • 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 load-carrying vehicle, if used, must be able to accommodate all the spoil extracted whilst excavating one of the trenches

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Activity instructions



Sequence	<ul style="list-style-type: none">• Activities 1 – 7 to be undertaken in a sequential order except• Activity 6 to be undertaken with activities 4 and 5• Activity 2 can be undertaken at any time during the test• Activity 7 must be undertaken on completion 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">1. Complete all manufacturers' pre-start and running checks and prepare the trencher for travel 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 <i>(refer to specifications)</i>	<ol style="list-style-type: none">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	<ol style="list-style-type: none">3. Prepare and set the trencher for the relevant work
Working tasks <i>(refer to specifications)</i>	<ol style="list-style-type: none">4. Complete 2 x vertical trenches in a 'T' formation5. Complete a straight excavation with vertical sides along the sloping ground6. Load material into a vehicle or in windrows
Shutting down	<ol style="list-style-type: none">7. Park the trencher 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

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Activity measurements

Travel restrictions	<ul style="list-style-type: none">• 600 mm
Trench depth	<ul style="list-style-type: none">• 1.0 metre \pm35 mm and straight within \pm60 mm
Trench lengths	<ul style="list-style-type: none">• Each trench to be a minimum of 10 metres long
Test timings	<ul style="list-style-type: none">• The test must be completed within 1 hour 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 Trencher set for travel	
	3 Restrictions and hazards cleared	
	4 Maintained control on inclines	
Setting up	5 Allocated area checked and clear of hazards prior to excavating	
Working	6 Trencher laterally level whilst excavating	
	7 Chain/wheel sequence of events for ground engagement followed	
	8 Excavated material clear of trench	
	9 Trenches conform to the stated sizes and tolerances	
	10 Conveyer(s) set to remove spoil clear of cut	
	11 Cutting speed matched to load	
Shutdown	12 Depth controlled on sloping ground	
	13 All shutdown and securing procedures	
Other	14 Legislation, manufacturers' and health and safety requirements complied with	
	15 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 Trencher mounting and dismounting		1	
	2 Identify information from the Operator's Manual		2	
	3 Full observation before moving		2	
	4 Full observation whilst travelling		2	
	5 Full observation before reversing		3	
	6 Observation maintained whilst excavating		2	
	7 Drive sprockets kept to the rear when travelling (tracked units only)		1	
	8 Travel speed matched to the ground type and conditions		1	
	9 Tight turns avoided when travelling (tracked machines only)		1	
Working	10 Site and set for excavating		2	
	11 Edges of the excavations clean and clear		2	
	12 Material cleanly placed into the loading vehicle (where applicable)		2	
	13 Use of steering/hydraulic controls		2	
Not exceeded eight penalties		Total penalties		

Achieved / Not achieved