

Dragline

A05

Technical Test – Practical

RESOURCES

Required

Machine	<ul style="list-style-type: none"> • Dragline and bucket
Area	<ul style="list-style-type: none"> • Ground, clear of hazards which must include: <ul style="list-style-type: none"> – level area for excavating and to accommodate 2 x spoil heaps – rough terrain – slope or slopes
Other equipment	<ul style="list-style-type: none"> • Load-carrying vehicle for spoil/material • Items to create restrictions for manoeuvring
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 dragline • 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 3 metres deep • The load carrying vehicle must have a minimum capacity equivalent to 8 full bucket loads of the dragline being used for the test

ACTIVITY

Instructions

Sequence	<ul style="list-style-type: none"> Activity 1 must be undertaken at the start of the test Activity 6 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 dragline 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 dragline for the relevant work
Working tasks (refer to specifications)	4. Excavate soil and form two stockpiles 5. Load material into a vehicle
Shutting down	6. Park the dragline 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
Stockpile	<ul style="list-style-type: none"> Minimum of 10 buckets loads each
Loading vehicle	<ul style="list-style-type: none"> Loaded to capacity
Test timings	<ul style="list-style-type: none"> The test must be completed within 3 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 Dragline set for travel		
	3 Restrictions cleared		
	4 Encountered hazards cleared		
	5 Jib and bucket position when ascending and descending inclines		
	6 Faced direction of travel whilst travelling		
Setting up	7 Allocated area checked and clear of hazards prior to excavating and loading		
Working	8 Dragline laterally level maintained during excavating		
	9 Full bucket loads maintained during excavating and loading		
	10 Loading vehicle and dragline position prior to loading		
	11 Vehicle evenly loaded but not overloaded		
Shutdown	12 Stockpiles conformed with given specification		
	13 All shut down 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	Dragline mounting and dismounting		1	
	2	Full observation before moving		2	
	3	Full observation whilst travelling		2	
	4	Observation before slewing upper structure		2	
	5	Keeping drive sprockets to the rear when travelling		1	
	6	Matching travel speed to the ground type and conditions		1	
	7	Avoiding tight turns when travelling (tracked machines only)		1	
Working	8	Positioning and setting for excavating		2	
	9	Excavating in layers		2	
	10	Placing material cleanly into the loading vehicle		1	
	11	Avoiding contact with vehicle when loading		2	
	12	Use of steering/hydraulic controls		2	
Not exceeded 8 penalties			Total penalties		
			Achieved / Not achieved		

