

# Agricultural Tractor

**A33**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Agricultural Tractor equipped with trailer towing facilities and 3-point linkage for implement mounting</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– rough undulating terrain</li> <li>– slope or slopes</li> <li>– confined space for reversing</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Compatible loaded two wheel trailer or fully laden bowser</li> <li>• 3-point mountable implement</li> <li>• A PTO-driven implement</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must meet be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the tractor</li> <li>• 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</li> <li>• The PTO-driven implement may be used in conjunction with the trailer/bowser or mounted implement</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activity 2 may be spread over the period of the test</li> <li>• Activities 4, 5 and 6 may be carried out in any order during the test</li> <li>• Activity 6 may be combined with activity 4 or 5</li> <li>• Activity 8 must be undertaken at the end of the test</li> </ul> <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 tractor for travel
Travelling & manoeuvring (refer to specifications)	2 With the trailer and mounted implement: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– travel over rough terrain</li> </ul> and additionally with the trailer: <ul style="list-style-type: none"> <li>– stop and restart on the incline in the up direction</li> <li>– carry out sharp left- and right-hand turns</li> <li>– reverse into a confined space</li> </ul>
Setting up for work	3 Position and prepare the tractor for all work
Working tasks (refer to specifications)	4 Attach the trailer and carry out activity 2. On completion, disconnect the trailer with the confined area 5 Attach the 3-point linkage implement and carry out activity 2. On completion, disconnect the implement 6 Connect the PTO driven implement and run to full speed to ensure correct functioning. On completion, detach the PTO driveline
Completing work	7 Leave all implements, trailers and components safe and secure
Shutting down	8 Park the tractor and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• The trailer must be reversed into a confined area that is at least the length of the trailer</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Reversing direction	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Reversing restriction	<ul style="list-style-type: none"> <li>• 1 metre</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 45 minutes</li> </ul>

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<b>Basic details</b>	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 Tractor set for travel		
	3 Restrictions and hazards cleared		
	4 Full control maintained when ascending and descending slopes		
Setting up	5 No opposite movement of intended direction when restarting on slopes		
	6 Allocated area checked and clear of hazards prior to work		
Working	7 Positioned the tractor for the relevant work		
	8 Trailer attached and disconnected using the correct sequence		
	9 Mounted implement attached and disconnected using the correct sequence		
	10 PTO implement attached and disconnected using the correct sequence		
	11 Mounted implement secured and stable prior to travel		
	12 PTO driveline components checked for condition prior to connection		
	13 PTO shaft secured and fully locked onto tractor and implement		
	14 Sequence of starting and stopping the PTO driveline		
Completing	15 PTO driveline checked for safe running		
	16 PTO driveline secured after disconnection		
Shutdown	17 All implements, trailers and components safe and secure after disconnecting		
Other	18 All shutdown and securing procedures		
	19 Legislation, manufacturers' and health and safety requirements complied with		
	20 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Tractor mounting and dismounting		1	
	2	Full observation before moving		2	
	3	Full observation whilst travelling		2	
	4	Full observation before and during reversing		3	
Working	5	Transmission drive engaged smoothly from rest		1	
	6	Travel speed matches ground type and conditions		2	
	7	Gear ratios match ground speed		1	
	8	Tractor positioning within 3 attempts when connecting trailer		2	
	9	Reversing into confined space within 3 attempts		2	
	10	Sequence of using hydraulic controls		1	
	11	Smooth use of steering and braking controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved

