

Advanced On-Site Assessment

Excavator 360 – A59

above 10 tonnes



Resources required

Machine	<ul style="list-style-type: none"> • 360 excavator fitted with a standard excavating bucket using a quick hitch coupling system(endorsements A and B)
Area	<ul style="list-style-type: none"> • Ground, clear of hazards, which must include: <ul style="list-style-type: none"> - level area for excavating (A and B) - rough terrain (A and B) - slope or slopes (A and B) - spoil/material to load vehicles (A and B)
Other equipment	<ul style="list-style-type: none"> • Load-carrying vehicle for spoil/material • 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 • The activities can be undertaken as part of the live site work but must include excavating and loading • The nominated area must be safe to allow excavations • The load-carrying vehicle must have a minimum capacity equivalent to 5 full bucket loads of the excavator being used for the test • The vehicle must be loaded and discharged at least twice • The same bucket may be used for reinstating and changing purposes

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Activity instructions – Endorsements A and B

<p>Sequence</p>	<ul style="list-style-type: none"> • Activity 1 must be undertaken at the start of the test. • Activities 2, 4 and 5, 6 and 11 to 14 can be undertaken at any time during the test. • Activity 9 must be undertaken at the end of the test. <p>The test must be completed within a given time. The specification section gives further information</p>
<p>Preparing for work</p>	<ol style="list-style-type: none"> 1. Complete all manufacturers' pre-start and running checks and prepare the excavator 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
<p>Travelling & manoeuvring <i>(refer to specifications)</i></p>	<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 - stop and start on the gradient whilst travelling uphill - stop and start on the gradient whilst travelling downhill - track through a chicane which requires left and right hand turns - pass through a restriction - travel over rough terrain
<p>Setting up for work</p>	<ol style="list-style-type: none"> 3. Prepare and set the excavator for the relevant work
<p>Working tasks <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> 4. Produce a vertical trench to the specified dimensions 5. Complete a square excavation with vertical sides at the end of the dug trench 6. Load material into a vehicle 7. Establish communication with the machine operator to be loaded 8. Change the bucket
<p>Completing work</p>	<ol style="list-style-type: none"> 9. Reinstate the work area back to the original state
<p>Shutting down</p>	<ol style="list-style-type: none"> 10. Park the excavator and carry out shut-down and securing procedures
<p>Notes</p>	<ul style="list-style-type: none"> • For Activity 2, wheeled excavators must pass through the restriction in both directions (super structure must be slewed 180° when returning through restriction so operator is facing direction of travel). • For Activity 7, the dipper must be raised and slewed away from the bucket before attaching, if using the same bucket • If the machine is hot, checks unable to be carried out (such as coolant) may be assessed by the tester using verbal questions

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Activity measurements – Endorsements A and B

Travel restrictions	<ul style="list-style-type: none"> • 800 mm (Activity 2)
Trench depth	<ul style="list-style-type: none"> • 1 m ± 35 mm and straight within ± 60 mm
Trench length	<ul style="list-style-type: none"> • Machine weight: <ul style="list-style-type: none"> - 10 - 20 tonnes = 15m - Over 20 tonnes = 20m • The excavation must be straight within + 60mm
Square excavation	<ul style="list-style-type: none"> • 3 x buckets wide and a depth of 1.5 m ± 35 mm
Loading vehicle	<ul style="list-style-type: none"> • The loading vehicle must require at least 5 x bucket loads to be filled to the capacity • The vehicle must be loaded and discharged at least twice
Test timings	<ul style="list-style-type: none"> • The test must be completed within 2 hours and 45 minutes for Endorsements A or B only

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Basic details



Test ref:	Candidate name:
Tester name:	Candidate ref:
Tester ref:	Date of test:
Endorsement: A <input type="checkbox"/> B <input type="checkbox"/>	Start time of test:
Make and model:	Duration:

Mandatory		Correctly carried out during the test?	Y/N
Preparing	1. All pre-start and running checks as per the manufacturers' operating handbook (or responses to relevant questions)		
	2. Identify and select correct PPE and weather-related equipment to be worn		
Travelling	3. Restrictions cleared		
	4. Excavator set for travel		
	5. Encountered hazards cleared		
	6. Boom/dipper arm position when ascending and descending inclines		
Setting up	7. Faced direction of travel whilst moving		
	8. Allocated area checked and clear of hazards prior to each activity or controlled as per risk assessment		
Working	9. Excavator laterally level whilst excavating		
	10. Excavated material clear of trench		
	11. Trenches conform to the stated sizes and tolerances		
	12. Full bucket loads when excavating (except for finishing work) and loading		
	13. Establish communication with supporting workers		
	14. Loading vehicle and excavator position prior to loading		
	15. Vehicle evenly loaded but not overloaded		
Shutdown	16. Existing bucket removed and replacement bucket installed		
	17. Excavated area reinstated back to the original contours (if applicable)		
Other	18. All shutdown and securing procedures		
	19. Legislation, manufacturers' and health and safety requirements complied with		
	20. 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. Excavator 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. Observation before slewing upper structure		2	
	6. Drive sprockets kept to the rear when travelling		1	
	7. Travel speed matched to the ground type and conditions		1	
	8. Minimising ground damage when turning (tracked machines only)		1	
Working	9. Site and set for excavating		2	
	10. Trench excavated in layers		1	
	11. Sideswiping with bucket		1	
	12. Edges of the excavations clean and clear		2	
	13. Material cleanly placed into the loading vehicle		1	
	14. Contact with vehicle avoided when loading		2	
	15. Use of steering/hydraulic controls		1	
Not exceeded five penalties		Total penalties		

Achieved / Not achieved

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Note: Mandatory item17 – the candidate must ground the bucket, stop the engine and remove the key before exiting the cab; this must be adhered to at all times during the test.