

# Advanced technical test - Practical

## Excavator 360 below 10 tonnes – A58



### Resources required - Additional

	<ul style="list-style-type: none"> <li>The machine must be at least three tonnes operating weight.</li> </ul>
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### Activity instructions - Additional

	<ul style="list-style-type: none"> <li>Excavate four trenches at right angles to form a square (replaces Activities 4 and 5). The candidate must mark out the excavating area (although assistance may be sought from the tester, such as holding string lines).</li> </ul>
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### Activity measurements - Additional - Endorsements A and B

<b>Travel restrictions</b>	<ul style="list-style-type: none"> <li>400 mm</li> </ul>
<b>Trench depths</b>	<ul style="list-style-type: none"> <li>Up to 5 tonnes = 0.7 m ±25 mm and straight within ±50 mm.</li> <li>Above 5 tonnes = 1.0 m ±25 mm and straight within ±50 mm.</li> </ul>
<b>Trench length</b>	<ul style="list-style-type: none"> <li>Up to 5 tonnes = 5 m</li> <li>Above 5 tonnes = 5 m</li> </ul>
<b>Test timings</b>	<ul style="list-style-type: none"> <li>The test must be completed within two hours</li> </ul>

### Activity measurements - Additional - Endorsements C

<b>Load movement</b>	<ul style="list-style-type: none"> <li>Maximum height of underside of the load = 1 m (except Activity 12)</li> </ul>
<b>Load movement (Activity 12)</b>	<ul style="list-style-type: none"> <li>Maximum height of underside of the load from ground contours = 100 mm</li> <li>Maximum distance from obstacle = 300 mm</li> </ul>
<b>Obstacle Height (Activity 12)</b>	<ul style="list-style-type: none"> <li>Minimum of 1 m (adjustments may be made for smaller excavators if the reach is limited)</li> </ul>
<b>Load placing</b>	<ul style="list-style-type: none"> <li>100 mm of a given position</li> </ul>
<b>Travelling with load</b>	<ul style="list-style-type: none"> <li>At least 15 m distance</li> </ul>
<b>Test timings</b>	<ul style="list-style-type: none"> <li>The test must be completed in a total time of 2 hours and 30 minutes if combining Endorsement C with Endorsements A or B</li> </ul>

**Note:** The lifting operations activities must follow the requirements laid out in the joint industry 'Guidance on Lifting Operations in the Construction Sector When Using Excavators', published by the Construction-plant Association and can be downloaded free-of-charge from [www.cpa.uk.net](http://www.cpa.uk.net)

# Advanced technical test - Practical

## Excavator 360 below 10 tonnes – A58

### Basic details



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

<b>Mandatory</b>	<b>Correctly carried out during the test?</b>	<b>Y/N</b>
<b>Preparing</b>	1. All pre-start and running checks (or responses to relevant questions)	
<b>Travelling</b>	2. Restrictions cleared	
	3. Excavator set for travel	
	4. Encountered hazards cleared	
	5. Boom/dipper arm position when ascending and descending inclines	
<b>Setting up</b>	6. Faced direction of travel whilst moving	
	7. Allocated area checked and clear of hazards prior to each activity	
<b>Working</b>	8. Excavator laterally level whilst excavating	
	9. Excavated material clear of trench	
	10. Trenches conform to the stated sizes and tolerances	
	11. Full bucket loads when excavating (except for finishing work) and loading	
	12. Loading vehicle and excavator position prior to loading	
	13. Vehicle evenly loaded but not overloaded	
	14. Existing bucket removed and replacement bucket installed	
	15. Excavated area reinstated back to the original contours	
<b>Shutdown</b>	16. Grading blade utilised for reinstating work	
	17. All shutdown and securing procedures	
<b>Other</b>	18. Legislation, manufacturers' and health and safety requirements complied with	
	19. Test completed within the given time	

**All of these items must be awarded** Achieved / Not achieved

<b>Faults</b>	<b>Candidate incorrectly carried out the following:</b>	<b>Fault</b>	<b>Mark</b>	<b>Penalty</b>
<b>Travelling</b>	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	
<b>Working</b>	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		1	
	15. Use of steering/hydraulic controls		1	
<b>Not exceeded five penalties</b>		<b>Total penalties</b>		
				Achieved / Not achieved

**Note:** Mandatory item 17 – 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.

# Advanced technical test - Practical Excavator 360 below 10 tonnes – A58



## Basic details – Endorsement C

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

Mandatory	Correctly carried out during the test?	Y/N
<b>Preparing</b>	20. All pre-start and running checks (or responses to relevant questions)	
<b>Travelling with load</b>	21. Excavator set for travel	
	22. Encountered hazards cleared	
	23. Boom/dipper arm position when ascending and descending inclines	
	24. Faced direction of travel when moving	
<b>Setting up</b>	25. Allocated area checked and clear of hazards prior to lifting activity	
	26. Communication arrangements confirmed with slinger/signaller	
	27. Excavator positioning correct prior to lifting loads	
	28. Excavator level prior to lifting and placing loads	
<b>Lifting operations</b>	29. No contact between load and excavator and/or other obstructions	
	30. Lifted, moved and lowered load in a controlled manner	
	31. Route assessed and travelled with the slung load in a controlled manner	
	32. Instructions conformed with	
	33. Stability of the machine maintained at all times	
	34. SWL not exceeded at any time	
	35. Load remains freely suspended (except during lifting and placing)	
	36. Machine controls isolated when loads being attached/disconnected	
<b>Shutdown</b>	37. Personnel clear of the 'danger' zone when lifting and moving loads	
	38. All shutdown and securing procedures	
<b>Other</b>	39. Legislation, manufacturers', and health and safety requirements complied with	
	40. Test completed within the given time	

Faults	Candidate incorrectly carried out the following:	All of these items must be awarded		
		Achieved / Not achieved		
		Fault	Mark	Penalty
<b>Travelling with loads</b>	16. Excavator mounting and dismounting		1	
	17. Identify information from the Operator's Manual		2	
	18. Full observation before moving		2	
	19. Full observation whilst travelling with slung load		2	
	20. Observation before slewing upper structure		2	
	21. Drive sprockets kept to the rear when travelling		1	
	22. Travel speed matched to the ground type and conditions		1	
	23. Minimising ground damage when turning with slung load (tracked machines only)		1	
<b>Lifting operations</b>	24. All loads vertically lifted (load not dragged)		2	
	25. Each load lifted clear of surface and checked for integrity		1	
	26. Load swings minimised during travel and static lifts		2	
	27. Keeping load height within given tolerance		1	
	28. All loads placed at given points within the given tolerance		2	
	29. Use of steering/hydraulic controls		1	
<b>Not exceeded five penalties</b>		<b>Total penalties</b>		
				Achieved / Not achieved

### Note:

- Mandatory items 20, 38 and 40, and item 15 in the faults section need not be marked if combining Endorsement C with Endorsements A or B.
- Existing CPCS cardholders holding Category A58 seeking Endorsement C need to be measured against all marking items in Endorsement C.
- Mandatory item 36 – If the candidate does not isolate the operating controls during the load attaching/detaching activity, the tester must immediately inform the candidate to do so. The candidate has the option to continue the test but be informed they have not achieved on the test at this time.