

Technical test - Practical

Plant driving - A68



Resources required - All Endorsements

Machine	<ul style="list-style-type: none"> Suitable for the relevant endorsement or endorsements
Area	<ul style="list-style-type: none"> Flat surface for travelling and manoeuvring Rough undulating terrain (not applicable for non-rough terrain plant, see matrix on activity page) Slopes or slopes (not applicable for certain items of plant, see matrix on activity page) Clear straight runs not less than the required length for the machine grouping (see matrix on activity page) Flat surface for travelling and manoeuvring
Notes	<ul style="list-style-type: none"> The Operator's manual must be with the machine The slope must have at least an 18% (1:5:5) incline with a sufficient manoeuvring area at the top, or a straight ramp with and up and down route with a flat area at the summit For Endorsement A68S (A31 – Ride on roller) there only needs to be a gentle gradient

Resources required - Loading/unloading Endorsements

Transporter	<ul style="list-style-type: none"> Transporter (rigid load carrying vehicle or trailer) suitable for the item of items of plant being loaded and equipped with suitable ramps
Area	<ul style="list-style-type: none"> Flat area clear of hazards with sufficient room to allow the loading and unloading of the relevant item or item of plant
Other equipment	<ul style="list-style-type: none"> Items for the loading and unloading of plant
Notes	<ul style="list-style-type: none"> The operator/drivers manual or other suitable information source for both the transporter and/or trailer must be available (to determine load capacities, axle loadings etc.) The weight of all types of plant to be loaded must be known The transporter or trailer used for the test must meet the following minimum specification: <ul style="list-style-type: none"> bed height (un-laden) - at least 885 mm bed width – 2.25 m ramp angle of gradient – at least 9 degrees from horizontal Defined headboard or gooseneck There must be a defined fulcrum (pivot point) between the ramp and trailer bed (or bed-to-bed if the rear portion of the trailer is angled) A safe system of work must be devised for the accessing and egressing machine's operating position/cab when on the transporter bed The Construction Plant-Hire Association HSE supported Guidance on Working at Height Loading and Unloading Transport is available free-of-charge from www.cpa.uk.net

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Activity instructions - All Endorsements

Sequence	<ul style="list-style-type: none"> Activity 1 must be undertaken at the start of the test. Activity 4 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	<ol style="list-style-type: none"> Complete all manufacturers' pre-start and running checks 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 (refer to specifications)	<ol style="list-style-type: none"> Drive the machine for a minimum specified distance. Carry out one or more of the following manoeuvring exercises: <ul style="list-style-type: none"> 3a: travel up and down the slope 3b: travel over rough terrain 3c: undertake left hand and right hand turns through a restriction 3d: drive in a straight line for a specified distance and pass through a restriction at the end of the run 3e: reverse in a straight line for a specified distance and pass through a restriction at the end of the run
Shutting down	<ol style="list-style-type: none"> Park the machine and carry out shut-down and securing procedures.
Notes	<ul style="list-style-type: none"> If the machine is hot, any checks that are unable to be carried out (i.e. coolant) may be assessed by the tester using verbal questions

Code	3a	3b	3c	3d	3e	L/U	Code	3a	3b	3c	3d	3e	L/U
A02B	X	X	X	X		X	A32	X	X	X	X	X	X
A05	X	X	X	X		X	A33	X	X	X	X	X	X
A06			X	X	X		A34	X	X	X	X	X	X
A09	X	X	X	X	X	X	A35	X	X	X	X	X	X
A10/12	X	X	X	X	X	X	A36			X	X	X	
A14	X	X	X	X	X	X	A37	X	X	X	X	X	X
A15			X	X	X	X	A39			X	X	X	
A16			X	X	X	X	A41		X	X	X	X	X
A17	X	X	X	X	X	X	A45/46		X	X	X		X
A18			X	X	X	X	A47/48		X	X	X		X
A19	X	X	X	X	X	X	A56	X	X	X	X	X	X
A21	X	X	X	X	X	X	A57	X	X	X	X	X	X
A22	X	X	X	X	X	X	A58/59	X	X	X	X		X
A23	X	X	X	X	X	X	A60			X	X	X	
A24	X	X	X	X	X	X	A65	X	X	X	X		X
A25			X	X		x	A66A & D	X	X	X	X		X
A26A			X	X	X		A66B			X	X	X	X
A26B	X	X	X	X		X							
A31	X	X	X	X	X	X							

Note: Code L/U refers to loading and unloading requirement (if chosen)

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Activity instructions - Loading/unloading Endorsements

Setting up for work	<ol style="list-style-type: none"> 5. Ensure the area is clear of hazards and segregate the working area 6. Ensure the transporters is set and prepared for receiving and removing the machine 7. Establish the communication methods and loading arrangement with the transporter driver (if applicable)
Working tasks <i>(refer to specifications)</i>	<ol style="list-style-type: none"> 8. Place the machine onto the transporter bed 9. Configure the machine for transport and shut down 10. Remove the machine from the transporter
Notes	<ul style="list-style-type: none"> • The position of the machine on the transporter and the configuration for transport must be relayed to the candidate at the start of the activities • The candidate must exit the cab/operating position and dismount from the bed of the transporter between loading and unloading exercises • Current CPCS cardholders adding the loading/unloading endorsement need to undertake activities 1 and 4 in addition to 5 – 10

Activity measurements - All Endorsements

Travel restrictions	<ul style="list-style-type: none"> • 800 mm
Driving distances <i>(totals)</i>	<ul style="list-style-type: none"> • Wheeled rigid and articulated up to 15 tonnes – total of at least 100 m • Wheeled rigid and articulated over 15 tonnes – total of at least 200 m • Tracked plant up to 10 tonnes – total of at least 40 m • Tracked plant over 10 tonnes – total of at least 60 m • Ride-on Roller – total of at least 40 m
Straight line driving	<ul style="list-style-type: none"> • Wheeled rigid and articulated up to 15 tonnes – minimum of 25 m • Wheeled rigid and articulated over 15 tonnes – minimum of 40 m • Tracked plant up to 10 tonnes – minimum of 10 m • Tracked plant over 10 tonnes – minimum of 20 m • Ride-on Roller – minimum of 20 m
Reversing	<ul style="list-style-type: none"> • Wheeled rigid and articulated up to 15 tonnes – minimum of 12 m • Wheeled rigid and articulated over 15 tonnes – minimum of 20 m • Tracked plant up to 10 tonnes – minimum of 7 m • Tracked plant over 10 tonnes – minimum of 15 m • Ride-on Roller – minimum of 10 m
Test timings	<ul style="list-style-type: none"> • The test must be completed within 20 minutes (non-operational only). • The test must be completed within 35 minutes (non-operational and loading/unloading)

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Activity measurements - Loading/unloading Endorsements

Machine placing	<ul style="list-style-type: none">• Positioned so that axle loadings are not exceeded
Test timings	<ul style="list-style-type: none">• The test must be completed within 15 minutes (loading/unloading only)

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Basic details

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

Mandatory - All Endorsements

Correctly carried out during the test?

Y/N

	Correctly carried out during the test?	Y/N
Preparing	1. All pre-start and running checks (or responses to relevant questions)	
	2. Machine set/configured for travel	
Travelling	3. Restrictions and hazards cleared	
	4. Boom/dipper/blade/bucket position when ascending and descending inclines and/or transporter ramps	
	5. Faced (360 slew types) or looked in direction of travel when moving	
	6. Straight line kept for reversing activity (plant driving only)	
	7. Full control maintained when ascending and descending inclines and/or transporter	
	8. Use of steering controls	
Shutdown	9. Use of driving controls	
	10. All shutdown and securing procedures	
Other	11. Legislation, manufacturers' and health and safety requirements complied with	
	12. Test completed within the given time	

Mandatory - Loading/unloading

Correctly carried out during the test?

Y/N

	Correctly carried out during the test?	Y/N
Setting up	13. Checked area safe prior to setting up for loading and unloading	
	14. Transporter positioning checked prior to loading and unloading (mobile transporters)	
	15. Loading and unloading area secured	
	16. . Ensured transporter was set, level and secure for loading and unloading (mobile transporters)	
	17. Ensured ramps were located and positioned according to plant type	
	18. . Checked condition of transporter bed/ramps	
Loading / unloading	19. Drove item of plant onto and off the transporter	
	20. Positioned item of plant on transporter ensuring axle loadings not exceeded	
	21. . Immobilised each item of plant and ensured all hydraulic systems disabled	
	22. . Followed given instructions and signals (where relevant)	

All of these items must be awarded

Achieved / Not achieved

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Basic details

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

Faults		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling		1. Mounting and dismounting the cab/operating position.		2	
		2. Identify information from the Operator's Manual		2	
		3. Full observation before moving and reversing.		3	
		4. Full observation whilst travelling.		2	
		5. Smooth use of controls.		2	
		6. Ensuring travel speeds match ground conditions and type.		1	
		7. Transmission drive engaged smoothly from rest.		2	
		8. Gear ratios matched to ground speed.		2	

Faults		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Loading / unloading		9. Egressing from the cab/driving position and trailer/transporter.		3	
		10. Mounting the trailer/transporter and accessing the cab/driving position.		3	
		11. Use of matting/traction aids (where needed).		3	

Not exceeded eight penalties

Total penalties	
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Achieved / Not achieved

Marking protocol

For the **Non-Operational** endorsement, only items 1 to 12 within the Mandatory section and items 1 to 7 within the Faults section need to be scored.

For the **Non-Operational** and/or the **Loading/Unloading** endorsement, all items need to be scored.

Where the **Loading/Unloading** endorsement is being added during a standard technical test for an item of plant, all items need to be scored. However matching criteria from the plant test marking sheet may be transposed onto the marking for this category (e.g. pre-start checks etc).