

Technical test - Practical

Conveying pump - A75



Resources required

<p>Machine</p>	<ul style="list-style-type: none"> • A conveying pump that meets the following criteria: <ul style="list-style-type: none"> - Pneumatic Pump (Endorsement A) - Worm/piston pump without mixer - up to 50mm outlet (Endorsement B) - Worm/piston pump with mixer - up to 50mm outlet (Endorsement C)
<p>Area</p>	<ul style="list-style-type: none"> • Ground, clear of hazards which must include: <ul style="list-style-type: none"> - place to receive conveyed material - designated wash-out/disposal area
<p>Other equipment / resources</p>	<ul style="list-style-type: none"> • A set of hoses suitable for pumping relevant to the endorsement • Clamps, safety clips, ground lines with couplings, seals, shovel , sponge balls • Sufficient water supply • Whip checks • A tripod (Endorsement A only) • Primer (if applicable) • Delivery hose cleaning equipment • Supply of material suitable for conveying • Vehicle Marshaller assistance/pour team
<p>Notes</p>	<ul style="list-style-type: none"> • The machine selected for the test must have all controls clearly marked, be in serviceable condition and conform with current legislation • The operator's manual must be with the pump • A delivery hose specification must be constructed for the activity, requiring at least 2 x delivery hoses with a combined length of at least 10 metres and tripod (where needed) • All couplings must be fitted with locking facilities • The Tester cannot provide signals or support the tripod • Data sheet/Delivery note/COSHH sheet must be available that showing the required mix specification • Pre bagged material or site mixed material suitable for pumping must be available

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Activity instructions



<p>Sequence</p>	<ul style="list-style-type: none"> Due to the nature of the equipment, all activities can be undertaken on different pumps, locations and different days. CPCS must be informed prior to any tests taking place and be given full details of any divided tests <p>The test must be completed collectively within a given time. The specification's section gives further information</p>
<p>Preparing for work</p>	<ol style="list-style-type: none"> Ensure that the conveyer pump is secure and accessible Segregate the working area Complete all manufacturer's 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
<p>Setting up for pumping</p>	<ol style="list-style-type: none"> Set up the equipment for work following the relevant specification Receive raw materials and carry out loading activities Establish the location where the pumped material to be delivered to Establish the communication procedures with the pour team Lubricate the delivery hoses with a suitable primer (if applicable)
<p>Working task <i>(refer to activity measurements)</i></p>	<ol style="list-style-type: none"> Convey the material to the delivery location whilst following given signals Carry out an emergency stop procedure Stop and restart the conveyer pump during work
<p>Completing and shutting down</p>	<ol style="list-style-type: none"> Clean all pump system components Carry out shut-down and securing procedures Dismantle and store all components and ready the conveying pump for movement
<p>Notes</p>	<ul style="list-style-type: none"> The candidate must provide a running commentary to pre-start checks being carried out in order to provide supporting information to visual checks (e.g. components) and physical checks (e.g. checking travel limits) being made. The tester may prompt the candidate to outline specific information but not ask direct questions that requires a technical answer For activities 10 and 11, the Tester will instruct the candidate when to stop and re-start pumping operations

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Activity measurements



Mixing and conveying	<ul style="list-style-type: none">• Minimum of 20 minutes (or at least 3 full vessel/pump mixer loads)
Test timings	<ul style="list-style-type: none">• The test must be completed within a total accumulated time of 1 hour and 10 minutes

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Basic details

Test ref:	Candidate name:
Tester ref:	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
Preparing	1. Positioned in relevant location	
	2. All pre-start and running checks	
	3. Function of all safety devices	
	4. Function of the pump checked	
Setting up	5. Allocated area checked and clear of hazards prior to conveying	
	6. Pump level and secure prior to conveying	
	7. Stabilisers set for conveying duties (as applicable)	
	8. Relevant delivery hoses selected and constructed to the given specification	
	9. Delivery hoses extended to the work area avoiding hazards and checked for condition	
	10. Delivery hose couplings and tripod (where applicable) to be compatible, inspected and connected using all appropriate safety devices	
	11. Delivery Hoses supported and secured (if applicable)	
Working	12. Pump engaged following required sequence	
	13. Engine set to required speed (Endorsement B & C only if applicable)	
	14. Lubricated the delivery hoses with suitable primer (if applicable)	
	15. Mix conforms with given specification	
	16. Mix conveyed to required location at the desired time	
	17. Carried out emergency stop appropriately	
Completing work and shutdown	18. Stop flow of material, depressurised and restarts as instructed by the Tester	
	19. Waste material disposed of following site instructions, guidelines and regulations	
	20. Components thoroughly cleaned after use	
	21. All shutdown and securing procedures	
Other	22. All components dismantled and stored correctly	
	23. Legislation, manufacturer's and health and safety requirements complied with	
	24. 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
1. Full observation before, during, mixing and conveying		3	
	2. Identify information from the Operator's Manual		2
	3. Delivered material deposited in suitable position for loading		2
	4. Communication procedure established		2
Working	5. Complied with given signals		1
	6. Establish location and facilities for wash out		2
	7. Components cleaned after use		2
	8. Sequence of using controls		2
	9. Correct use of all controls		2
10. Whip checks not fully extended		2	
Not exceeded eight penalties		Total penalties	

Achieved / Not achieved