

Concrete Pump

A44

Trailer Mounted

Technical Test – Practical

RESOURCES

Required

Machine	<ul style="list-style-type: none"> Trailer mounted concrete pump
Area	<ul style="list-style-type: none"> Ground, clear of hazards which must include: <ul style="list-style-type: none"> – place to receive poured material – wash-out point
Other equipment	<ul style="list-style-type: none"> Pipe sections, taper and bends, including incorrect sized versions Ground lines with couplings, seals, packing and anchors Pipe cleaning equipment Supply of pumpable material Signaller assistance
Notes	<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 machine A pipeline specification must be constructed for the activity, requiring a pipe length of at least 10 metres Couplings must be fitted with locking facilities The pumpable material must be deposited into the hopper from a self-propelled vehicle i.e. mixer

ACTIVITY

Instructions

Sequence	<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 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 Ensure that the trailer is secure and segregate the working area
Setting up for work	<ol style="list-style-type: none"> Prepare for the relevant work following the given pipeline specification Line the pipes and placing hoses with suitable grout Direct the material-carrying vehicle into position
Working tasks (refer to specifications)	<ol style="list-style-type: none"> Pump the material to the pour location whilst following signals Stop and restart the pour during work
Completing work	<ol style="list-style-type: none"> Clean all pumping system components Dismantle and store all components and ready the trailer for movement
Shutting down	10 Carry out shut-down and securing procedures

Activity measurements

Pumping duration	<ul style="list-style-type: none"> Minimum of 15 minutes
Test timings	<ul style="list-style-type: none"> The test must be completed within 1 hour and 30 minutes

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Basic details	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)		
	2 Function of emergency stop		
	3 Positioned in relevant location		
Setting up	4 Allocated area checked and clear of hazards prior to pumping		
	5 Trailer level and secure prior to pumping		
	6 Outriggers set for pumping duties (as applicable)		
	7 Relevant piping selected		
	8 Pipeline extended to work area avoiding hazards		
	9 Couplings compatible with, connected and locked to piping		
Working	10 Flexible piping checked for condition		
	11 Pipeline anchored, supported and secured		
	12 Pipeline conformed with specification		
	13 Pump engaged following required sequence		
	14 Pump function checked		
Completing	15 Engine set to required speed		
	16 Pipeline grouted and lubricated with appropriate mix		
	17 Mix conformed with specification		
Shutdown	18 Material pumped to required location at the desired time		
	19 Waste material disposed of following guidelines and regulations		
Other	20 All components dismantled and stored		
	21 All shutdown and securing procedures		
Other	22 Legislation, manufacturers' and health and safety requirements complied with		
	23 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	Truck mounting and dismounting		1	
	2	Full observation before moving and during pumping		2	
	3	Material-carrying vehicle positioned to allow unloading of material		3	
Working	4	Followed signaller's instructions		2	
	5	Components and trailer thoroughly cleaned after use		2	
	6	Sequence of using controls		2	
	7	Smooth use of all controls		2	
Not exceeded 8 penalties			Total penalties		
					Achieved / Not achieved

