

# Technical test - Practical

## Concrete pump - A44

### Trailer mounted

#### Resources required



<b>Machine</b>	<ul style="list-style-type: none"> <li>Trailer mounted concrete pump</li> </ul>
<b>Area</b>	<ul style="list-style-type: none"> <li>Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>place to receive poured material</li> <li>wash-out point</li> </ul> </li> </ul>
<b>Other equipment</b>	<ul style="list-style-type: none"> <li>Pipe sections, taper and bends, including incorrect sized versions</li> <li>Ground lines with couplings, seals, packing and anchors</li> <li>Pipe cleaning equipment</li> <li>Supply of concrete suitable for pumping</li> <li>Signaller assistance</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>The machine selected for the test must have all controls clearly marked, be in serviceable condition and conform with current legislation</li> <li>The operator's manual must be with the machine</li> <li>A pipeline specification must be constructed for the activity, requiring a pipe length of at least 10 metres consisting of steel tubes and flexible hosing.</li> <li>Couplings must be fitted with locking facilities</li> <li>The pumpable material must be deposited into the hopper from a self-propelled vehicle i.e. mixer</li> </ul>

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## Activity instructions

<p><b>Sequence</b></p>	<ul style="list-style-type: none"> <li>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</li> </ul> <p>The test must be completed collectively within a given time. The specifications' section gives further information</p>
<p><b>Preparing for work</b></p>	<ol style="list-style-type: none"> <li>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"> <li>Additional information to be identified by the candidate referring to the operator's manual. Tester to decide what information will be identified</li> </ul> </li> <li>Ensure that the trailer is secure and segregate the working area</li> </ol>
<p><b>Setting up for work</b></p>	<ol style="list-style-type: none"> <li>Prepare for the relevant work following the given pipeline specification</li> <li>Lubricate the pipes and placing hoses with a suitable primer</li> <li>Direct the material-carrying vehicle into position</li> </ol>
<p><b>Working tasks</b> <i>(refer to specifications)</i></p>	<ol style="list-style-type: none"> <li>Pump the material to the pour location whilst following signals</li> <li>Stop and restart the pour during work</li> </ol>
<p><b>Completing work</b></p>	<ol style="list-style-type: none"> <li>Clean all pumping system components</li> <li>Dismantle and store all components and ready the trailer for movement</li> </ol>
<p><b>Shutting down</b></p>	<ol style="list-style-type: none"> <li>Carry out shut-down and securing procedures</li> </ol>
<p><b>Notes</b></p>	<ul style="list-style-type: none"> <li>For activity 3 - Where part of the test is integrated with production activities, the pipeline specification using steel pipes and securing requirements may be simulated</li> <li>For activity 5 - The material carrying vehicle may be guided to position and the load discharged into a pre-installed mixer unit</li> </ul>

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#### Activity measurements

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

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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		
	10 Flexible piping checked for condition		
	11 Pipeline anchored, supported and secured		
Working	12 Pipeline conformed with specification		
	13 Pump engaged following required sequence		
	14 Pump function checked		
	15 Engine set to required speed		
	16 Pipeline grouted and lubricated with appropriate mix		
Completing	17 Mix conformed with specification		
	18 Material pumped to required location at the desired time		
	19 Waste material disposed of following guidelines and regulations		
Shutdown	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
	1 Full observation before moving and during pumping		2	
	2 Identify information from the Operator's Manual		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	
<b>Not exceeded eight penalties</b>			<b>Total penalties</b>	
<span style="border: 1px solid black; padding: 2px;">Achieved / Not achieved</span>				