

# Concrete Pump

A06

Truck Mounted Boom

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Truck mounted boom concrete pump</li> </ul>
Area	<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>
Other equipment	<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 pumpable material</li> <li>• Structure of at least 3 metres in height</li> <li>• Signaller assistance</li> </ul>
Notes	<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 vehicle</li> <li>• A pipeline specification must be constructed for the activity, requiring a pipe length of at least 15 metres</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>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 2 to 10 to follow the described sequence</li> <li>• Activity 2 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the truck for travel
Travelling & manoeuvring (refer to specifications)	2. Travel to the work area.
Setting up for work	3. Site the truck and prepare for the relevant work following the given pipeline specification 4. Line the pipes and placing hoses with suitable grout 5. Direct the material-carrying vehicle into position
Working tasks (refer to specifications)	6. Pump the material to the pour location whilst following signals 7. Whilst pumping material, the boom must change radius whilst keeping the end of the hose at a constant height 8. Stop and restart the pour during work
Completing work	9. Clean all pumping system components 10. Dismantle and store all components and prepare the truck for travel
Shutting down	11. Park the truck and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• The boom must be placed over the structure</li> <li>• The unfolding of the boom and extension to the pour point to be undertaken following given signals</li> <li>• A DVLA issued driving licence bearing class C must be held by the candidate prior to the test taking place</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Pumping duration	<ul style="list-style-type: none"> <li>• Minimum of 15 minutes</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 2 hours and 15 minutes or until the pour has been completed</li> </ul>

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<b>Basic details</b>	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)		
Travelling	2 Restrictions cleared		
	3 Truck set for travel		
	4 Travel route checked for safe travelling		
Setting up	5 Encountered hazards cleared		
	6 Allocated area checked and clear of hazards prior to pumping		
	7 Vehicle level and secured prior to pumping		
	8 Outriggers set for pumping duties (as applicable)		
	9 Axle(s) restrained (as applicable)		
	10 Relevant piping selected		
	11 Boom extended to work area avoiding hazards and structures		
	12 Couplings compatible with, connected and locked to piping		
	13 Flexible piping checked for condition		
	14 Piping anchored, supported and secured		
	15 Pipeline conformed with specifications		
Working	16 Pump engaged following required sequence		
	17 Pump function checked		
	18 Pipeline grouted and lubricated with appropriate mix		
	19 Mix conformed with specification		
Completing	20 Material pumped to required location at the desired time		
	21 Waste material disposed of following guidelines and regulations		
Shutting	22 All components dismantled and stored		
	23 All shut down and securing procedures		
Other	24 Legislation, manufacturers' and health and safety requirements complied with		
	25 Test completed within the given time		
<b>All of these items must be awarded</b>			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 reversing		3	
	3	Full observation whilst travelling		2	
	4	Full observation before and during boom extending		2	
	5	Matching vehicle travel speed to ground and environmental conditions		1	
Working	6	Positioning material carrying vehicle to allow unloading of material		3	
	7	Following signaller's instructions		2	
	8	Cleaning components and vehicle thoroughly after use		2	
	9	Sequence of using hydraulic/lifting controls		2	
	10	Smooth use of steering/braking and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		

