

# Piling Rig

Tripod

**A30**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Piling rig configured for bored operations</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Flat area to driven works to take place</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Winching systems with power unit</li> <li>• Driving equipment to form bored piles</li> <li>• Additional equipment to form piles</li> <li>• Equipment to secure the tripod for work</li> <li>• Equipment to remove excess spoil</li> <li>• Suitable personnel to assist with the operations</li> <li>• Lifting equipment for tripod assembly/dismantling (if required)</li> <li>• Applicable lifting accessories for all loads (if required)</li> </ul>
Piles	<ul style="list-style-type: none"> <li>• Equipment to produce a pile of up to 450 mm diameter</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The unit selected for the test must be in serviceable condition and conform with current legislation</li> <li>• Depth of all piles to be 6 metres (or as specified for working operations)</li> <li>• The user's manual or other information source must be with the rig</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of all loads must be known</li> <li>• Specification detailing location, type and depth of piles</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 5 and 6 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>
Setting up for work	<ol style="list-style-type: none"> <li>Transport the rig components to the work position</li> <li>Position, rig and set for boring work</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>Form bored piles to specification</li> <li>Ensure the bore is plumb throughout the boring activity</li> </ol>
Completing work	<ol style="list-style-type: none"> <li>Carry out shut-down procedures</li> <li>Clean the area and dismantle the rig ready for transportation</li> </ol>
Notes	<ul style="list-style-type: none"> <li>The test may be carried out during actual work and discrepancies allowed for compared to the stated activities and pile types</li> <li>A minimum of 4 piles must be formed to completion</li> <li>If applicable, if the machine (engine) is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

### Activity measurements

Pile placing	<ul style="list-style-type: none"> <li>Within 100 mm of the given position</li> </ul>
Pile measurement	<ul style="list-style-type: none"> <li>Maximum of 10 degrees from vertical</li> </ul>
Pile depth	<ul style="list-style-type: none"> <li>6 metres and within 100 mm of the given depth</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 2 hours and 15 minutes</li> </ul>

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## Tripod

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Technical Test – Practical

<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
Setting up	1 Area checked and safe prior to setting up for bored works		
	2 Rig positioning accurately for bored works		
	3 Ensuring rig was level prior to bored works		
	4 Safety devices checked for function		
	5 Stability of area checked prior to bored works		
	6 Mechanical components checked for function prior to work (or responses to relevant questions)		
	7 Area checked and safe prior to setting up for bored works		
Working	8 Created each bore to the specification		
	9 Soil removed to the agreed area (if applicable)		
	10 Formed pile to the specification		
	11 Did not exceed rig's capacity		
	12 Rig stability maintained		
	13 Instructions conformed with		
Completing	14 Carried out shut down procedures		
	15 Rig and components cleaned of spoil/materials		
	16 Dismantled rig following required procedures		
Other	17 Legislation, manufacturers' and health and safety requirements complied with		
	18 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
Setting up	1 Standing at the operator's station			2	
	2 Full observation whilst using the rig			2	
	3 Rigging procedures clarified with additional team members			2	
Working	4 Following manual handling procedures			2	
	5 Checking regularly for depth and pile formation			2	
	6 Using planned cycles of operation			2	
	7 Sequence of using boring (winch) controls			1	
	8 Smooth use of boring (winch) controls			1	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		

