

# Advanced On-Site Assessment

## Piling Rig Attendant – A74



### Resources required

<b>Machine</b>	<ul style="list-style-type: none"> <li>• Purpose built masted piling rig and ancillary equipment to rig the machine for work activities.</li> </ul>
<b>Area</b>	<ul style="list-style-type: none"> <li>• Facilities for rig travel and parking</li> <li>• Certified piling platform for piling works to take place</li> <li>• Area clear of hazards e.g. overhead and underground services and with a designated exclusion zone.</li> </ul>
<b>Other equipment</b>	<ul style="list-style-type: none"> <li>• Piling and ancillary equipment to meet the pile specification</li> <li>• Fully qualified rig operator and additional supporting labour (including reporting line).</li> <li>• Resources and materials to ensure the installation of piles.</li> <li>• Equipment to remove spoil at the piling location (if required).</li> <li>• Pile layout drawing and pile schedule/design.</li> <li>• Permit to dig</li> <li>• Lifting equipment for lifting operations (if required).</li> <li>• Applicable lifting accessories for all loads (if required).</li> <li>• Items to create restrictions for manoeuvring (cones, barriers and signage)</li> </ul>
<b>Pile Specification</b>	<ul style="list-style-type: none"> <li>• Minimum of 15 linear meters*</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• The machine selected for the test must meet the specification for the required endorsement, be in serviceable condition and conform with current legislation.</li> <li>• The piling rig operator must be certified and competent.</li> <li>• All lifting accessories must be fit for purpose and certified.</li> <li>• The weight of all loads/ancillary equipment must be known.</li> <li>• Specification detailing positioning, sequence, type and depth of completed piles.</li> <li>• All certification permits to dig and lift plans (where required) must be authorised and current.</li> </ul> <p>*Linear meters are defined by the length and number of piles e.g. 2 x 10 metre piles or 5 x 4 metre piles etc.</p>

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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, piling activities can be undertaken on different rigs, locations and different days if required. 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>Carry out pre-use checks to all ancillary equipment required for the construction of piles.</li> <li>Establish communication methods with the rig operator.</li> <li>Ensure, by communication with the operator, that the rig/mast is prepared for travel.</li> </ol>
<p><b>Travelling &amp; manoeuvring (refer to activity measurements)</b></p>	<ol style="list-style-type: none"> <li>Guide the rig to the work area by providing directions to the rig operator.</li> <li>Guide the rig through a restriction whilst travelling to the work area.</li> </ol>
<p><b>Setting up for work</b></p>	<ol style="list-style-type: none"> <li>Prepare the rig/mast and ancillary equipment for defined piling works.</li> <li>Ensure the resources and materials are correct, available and of sufficient quantity etc.</li> </ol>
<p><b>Working tasks (refer to activity measurements)</b></p>	<ol style="list-style-type: none"> <li>Locate the rig onto the pile position within specified tolerances.</li> <li>Ensure the pile is plumb/at the correct angle throughout the piling activity.</li> <li>Ensure the pile is installed to specification.</li> <li>Control the working area and maintain exclusion zone.</li> </ol>
<p><b>Completing work</b></p>	<ol style="list-style-type: none"> <li>On completion of the placing of each pile, confirm the pile has been constructed to specification.</li> <li>Instruct the rig operator to configure the rig for travel and guide the rig to the next working position.</li> </ol>
<p><b>Shutting down</b></p>	<ol style="list-style-type: none"> <li>On completion of all activities, instruct the rig operator to configure the rig for travel and guide the rig to a safe parking area on firm level ground.</li> <li>Provide specified assistance to the operator for shut-down and securing procedures.</li> </ol>
<p><b>Notes</b></p>	<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 including time needed to move to a new pile position.</li> <li>Checks unable to be carried out may be assessed by the tester using verbal questions.</li> <li>For item 15, instructions for assistance must be defined before shut-down and securing activities begin.</li> </ul>

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### Activity measurements



<b>Manoeuvring restrictions</b>	<ul style="list-style-type: none"><li>• Maximum of the width of the rig plus 800mm</li></ul>
<b>Pile Placing</b>	<ul style="list-style-type: none"><li>• Within 75mm of the given positions (or specified tolerances if less than 75mm)</li></ul>
<b>Pile Measurements</b>	<ul style="list-style-type: none"><li>• Pile complete within vertical tolerance of the specification</li></ul>
<b>Completed Pile(s)</b>	<ul style="list-style-type: none"><li>• At least 15 linear meters</li></ul>
<b>Test timings</b>	<ul style="list-style-type: none"><li>• The test must be completed within a total accumulated time 2 hours</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:

<b>Mandatory</b>	<b>Correctly carried out during the test?</b>	<b>Y/N</b>
<b>Preparing</b>	1. All pre-use checks to equipment (or responses to relevant questions)	
<b>Travelling</b>	2. Assist in setting the rig correctly for travel	
	3. Guide the rig through restrictions	
	4. Maintain a position of safety during travelling activities	
	5. Encountered hazards identified and cleared	
<b>Setting up</b>	6. Exclusion area checked and safe prior to setting up for piling works or controlled as per risk assessment	
	7. Rig positioned accurately for piling (reference rods etc.)	
	8. Ensuring rig was level for piling works	
	9. Confirm pile details are correct with operator	
<b>Working</b>	10. Communication arrangements confirmed with the rig operator	
	11. Aligned the mast for the required pile angle	
	12. Ensure that the exclusion zone is maintained throughout	
	13. Spoil removed to the agreed area (if applicable)	
	14. Form pile to the specification (drawing / schedule)	
	15. Confirm weight of all loads with the rig operator	
	16. Rig stability maintained (checked platform condition)	
	17. Pile constructed in accordance with industry and company standards	
<b>Shutdown</b>	18. Rig re-configured from piling to travelling duties	
	19. Parked Securely in appropriate place All shutdown and securing procedures	
<b>Other</b>	20. All shut down and securing procedures	
	21. Legislation, manufacturers' and health and safety requirements complied with	
	22. Test completed within the given time	

**All of these items must be awarded** Achieved / Not achieved

<b>Faults</b>	<b>Candidate incorrectly carried out the following:</b>	<b>Fault</b>	<b>Mark</b>	<b>Penalty</b>
<b>Working</b>	1. Signal code confirmed with operator		1	
	2. All around observation before rig is moved (no obstruction)		2	
	3. All around observation whilst rig is travelling		2	
	4. All around observation made before / during slewing		2	
	5. Ensure all ancillary equipment is checked for travel		1	
	6. Minimal manoeuvring maintained during piling work		1	
	7. Follow planned sequence of operation		1	
	8. Materials organised and ready for work		2	
	9. Remain in a position of safety during piling operation		1	
	10. Maintain communication with rig operator		1	
<b>Not exceeded five penalties</b>		<b>Total penalties</b>		

Achieved / Not achieved