

Piling Rig

Bored below 15 tonnes

A47

Technical Test – Practical

RESOURCES

Required

| | |
|--------------------|---|
| Machine | <ul style="list-style-type: none"> • Piling rig configured for boring operations |
| Area | <ul style="list-style-type: none"> • Facilities for rig travel and parking • Flat area to bored works to take place |
| Other equipment | <ul style="list-style-type: none"> • Boring equipment to meet the specification • Equipment to create piles • Equipment to remove spoil at the boring location • Crane for lifting operations (if required) • Suitable personnel to assist with the operations • Applicable lifting accessories for all loads (if required) • Items to create restrictions for manoeuvring |
| Pile specification | <ul style="list-style-type: none"> • Diameter of 150 mm (or as per working specification) |
| Notes | <ul style="list-style-type: none"> • The machine selected for the test must be in serviceable condition and conform with current legislation • Depth of all piles to be 6 metres (or as specified for working operations) • The operator's manual must be with the rig • All lifting accessories must be fit for purpose and certificated • The weight of all loads must be known • Specification detailing location, type and depth of completed piles |

ACTIVITY

Instructions

| | |
|--|--|
| Sequence | <ul style="list-style-type: none"> Activity 1 must be undertaken at the start of the test Activity 8 must be undertaken at the end of the test <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 rig for travel |
| Travelling & manoeuvring (refer to specifications) | 2 Travel to the work area 3 Manoeuvre through a restriction |
| Setting up for work | 4 Configure, prepare and set the rig for bored works |
| Working tasks (refer to specifications) | 5 Form bored piles to specification 6 Ensure the bore is plumb throughout the boring activity |
| Completing work | 7 On completion of all piling activities, configure the rig for travel |
| Shutting down | 8 Park the rig and carry out shut-down and securing procedures |
| Notes | <ul style="list-style-type: none"> The test may be carried out during actual work and discrepancies allowed for compared to the stated activities and pile types A minimum of 4 piles must be formed to completion If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions |

Activity measurements

| | |
|-------------------------|--|
| Manoeuvring restriction | <ul style="list-style-type: none"> Maximum of the width of the rig plus 800 mm |
| Bore placing | <ul style="list-style-type: none"> Within 100 mm of the given position |
| Bore measurement | <ul style="list-style-type: none"> Maximum of 10 degrees from vertical |
| Bore depth | <ul style="list-style-type: none"> 6 metres and within 100 mm of the given depth |
| Test timings | <ul style="list-style-type: none"> The test must be completed within 2 hours and 15 minutes |

Piling Rig

A47

Bored below 15 tonnes

Technical Test - Practical

| | | |
|----------------------|----------------|--------------------|
| 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) | | |
| Travelling | 2 Set the rig correctly for travel | | |
| | 3 Restrictions cleared | | |
| | 4 Faced the direction of travel | | |
| Setting up | 5 Encountered hazards cleared | | |
| | 6 Area checked and safe prior to setting up for bored works | | |
| | 7 Rig positioned accurately prior to bored works | | |
| | 8 Ensuring rig was level prior bored works | | |
| Working | 9 RCI programmed for all duties (if fitted) | | |
| | 10 Communication arrangements confirmed with the signaller | | |
| | 11 Aligned the flight for the required bore angle | | |
| | 12 Created each bore to the specification | | |
| | 13 Soil spun of flight in the agreed area (if applicable) | | |
| | 14 Formed pile to the specification | | |
| | 15 Did not exceed rig's capacity | | |
| | 16 Rig stability maintained | | |
| Shutdown | 17 Instructions conformed with | | |
| | 18 Rig re-configured from piling to travelling duties | | |
| Other | 19 Parked in appropriate place | | |
| | 20 All shut down and securing procedures | | |
| Other | 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

FAULTS

Candidate incorrectly carried out the following:

| | | Fault | Mark | Penalty |
|---------------------------------|---|-------|-----------------|-------------------------|
| Travelling | 1 Rig mounting and dismounting | | 1 | |
| | 2 Full observation before moving and reversing | | 3 | |
| | 3 Full observation whilst travelling | | 2 | |
| | 4 Full observation before slewing the upper structure | | 2 | |
| | 5 Drive sprockets kept to the rear when travelling | | 1 | |
| | 6 Matched travel speed to ground types | | 1 | |
| | 7 Auger motor and flight setting for travel | | 2 | |
| Working | 8 Minimal manoeuvring maintained during work | | 2 | |
| | 9 Used planned cycles of operation | | 2 | |
| | 10 Sequence of using boring (piling) controls | | 1 | |
| | 11 Smooth use of steering controls | | 1 | |
| Not exceeded 8 penalties | | | Total penalties | |
| | | | | Achieved / Not achieved |

