

Advanced On-Site Assessment

Crawler - tractor/side boom - A35



Resources required

| | |
|------------------------|--|
| Machine | <ul style="list-style-type: none"> • Crawler-tractor chassis with side-boom equipment |
| Area | <ul style="list-style-type: none"> • Ground with level and uneven terrain • Trench of at least 1 metre deep or as per employer specification for the placing of steel piping |
| Other equipment | <ul style="list-style-type: none"> • Lifting accessories for the piping • Items to create restrictions for manoeuvring • Slinger/signaller assistance |
| Loads | <ul style="list-style-type: none"> • Steel piping or loads as per employer requirements |
| Notes | <ul style="list-style-type: none"> • conform with current legislation • The steel piping or other loads must be a minimum of 4 metres long and at least 0.5 of a metre in diameter • The operator's manual and all other related supporting documents such as risk assessments etc. must be with the side boom • Maximum radius equates to the configuration of the crane being used for the test • The slinger and signaller must be certificated and competent • All lifting accessories must be fit for purpose and certificated • The weight of all loads must be known |

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Activity instructions

| | |
|---|---|
| <p>Sequence</p> | <ul style="list-style-type: none"> Activity 1 must be undertaken at the start of the test Activity 9 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> |
| <p>Preparing for work</p> | <ol style="list-style-type: none"> 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"> Additional information to be identified by the candidate referring to the operator's manual. Tester to decide what information will be identified |
| <p>Travelling & manoeuvring <i>(refer to specifications)</i></p> | <ol style="list-style-type: none"> Prepare the side boom for travel Travel to the work area and: <ul style="list-style-type: none"> travel up and down the slope pass through a restriction travel over rough terrain |
| <p>Setting up for work</p> | <ol style="list-style-type: none"> Position, prepare and set the side boom for each lift |
| <p>Working tasks <i>(refer to specifications)</i></p> | <ol style="list-style-type: none"> Pick up the pipe and travel over rough terrain before arriving at the trench Deposit the pipe into the trench at a given position following given signals. On completion, detach the pipe Attach and remove the pipe from the trench and place back at the original start point or repeat item 6 if not possible due to operational reasons |
| <p>Completing work</p> | <ol style="list-style-type: none"> Stow all equipment and return the vehicle to the park position |
| <p>Shutting down</p> | <ol style="list-style-type: none"> Park the side boom and carry out shut-down and securing procedures |
| <p>Notes</p> | <ul style="list-style-type: none"> The instructor must check that the candidate has programmed the RCI or load moment indicator correctly before carrying out each activity On activity 6, there must be a change of radius when placing the pipe into the trench If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions |

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Activity measurements

| | |
|------------------------------|--|
| Reversing restriction | <ul style="list-style-type: none">• 600 mm |
| Load placing | <ul style="list-style-type: none">• 100 mm of a given position |
| Test timings | <ul style="list-style-type: none">• The test must be completed within 1 hour |

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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) | |
| Travelling | 2 Side boom set for travel | |
| | 3 Restrictions cleared | |
| | 4 Travelled safely with load | |
| | 5 Encountered hazards cleared | |
| Setting up | 6 Area checked and safe prior to setting up for lifting and depositing loads or controlled as per risk assessment | |
| | 7 Ensured ground conditions and lifting and placement site | |
| | 8 Side boom positioning prior to lifting loads | |
| | 9 Ensured side boom was level prior to lifting loads | |
| | 10 RCI/LMI programmed for all lifting duties | |
| Working | 11 Communication arrangements confirmed with the signaller | |
| | 12 SWL not exceeded at all times | |
| | 13 Load integrity and stability maintained at all times | |
| | 14 Loads did not contact any obstructions | |
| | 15 Load placed in a retrievable position (no free-fall) | |
| | 16 Lifted, moved and lowered all loads in a controlled manner | |
| | 17 Route assessed and travelled with the suspended load in a controlled manner | |
| | 18 Instructions conformed with | |
| Completing | 19 All lifting accessories stowed and secure | |
| Shutdown | 20 Parked in appropriate place | |
| | 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 |
|---|---|------------------------|-------------|----------------|
| Travelling | 1 Side boom mounting and dismounting | | 1 | |
| | 2 Identify information from the Operator's Manual | | 2 | |
| | 3 Full observation before moving and reversing | | 3 | |
| | 4 Full observation whilst travelling | | 2 | |
| | 5 Drive sprockets kept to rear when travelling | | 1 | |
| | 6 Lifting accessories clear of the ground | | 1 | |
| | 7 Travel speeds match ground type and conditions | | 2 | |
| Working | 8 Load placing at the given points within the given tolerance | | 2 | |
| | 9 Checking load for integrity prior to travel | | 2 | |
| | 10 Lifting load vertically | | 2 | |
| | 11 Load lowering control | | 2 | |
| | 12 Sequence of using hydraulic/lifting controls | | 2 | |
| | 13 Smooth use of the steering, braking and hydraulic controls | | 1 | |
| Not exceeded five penalties | | Total penalties | | |
| <input type="checkbox"/> Achieved / Not achieved <input type="checkbox"/> | | | | |