

A01 Truck mounted Crane

IMPORTANT NOTICE PLEASE READ CAREFULLY TO ENSURE SITE MEETS SPECIFICATION REQUIREMENTS

Experienced Workers (must have at least 2 years experience on the plant + 3 years in the construction industry and be over 21 years of age) if candidates are not English speaking then an interpreter must be present.

Equipment Specification

1. Serviceable truck mounted crane that meets current legislation, with the operator's **manuals** for the crane and carrier vehicle.
2. Suitable loads of known weights, being:
Load A
 - i) 1 x load which must be a minimum 50 load at 75 full radius of the crane, (excluding the lattice extension/fly jib)Load B
 - ii) 1 x load which must be within the duties chart for 2 falls of rope.Load C
 - iii) 1 x load which must be within the duties chart for the lattice extension/fly jib.
3. A measuring tape of sufficient length, able to measure the maximum radius of the crane.
4. Slinger and Signaller assistance.
5. Suitable certificated lifting accessories for all loads.
6. An area with facilities for crane travel and parking, a structure(s) to place loads at a height of at least 2 metres, and able to carry out 'blind' lifts.
7. Cones/materials etc. to create restrictions for travelling and manoeuvring.

Exercise Specification

The candidate is required to:

1. Carry out full pre-start and running checks on the crane and carrier as required by the manufacturers).
2. Prepare the crane for road travel, and drive to the lifting area.
3. Position and set the crane to lift and move Load A and land in a designated position at ground level. The load must be placed in a position which requires the crane to be at 75 of maximum reach for load A.
4. Position and set the crane to lift and move Load B from ground level, and land in a designated position at least 2 metres above ground level. There must be a change in radius. On completion land the load at the original start point.
5. Fit the lattice extension or fly jib, position and set the crane to lift and move Load C from a designated position, rotate for at least 270 degrees, and land at a designated point.
6. Position and set the crane to lift and move a load from a designated position, and land in a designated position out of sight of the candidate. On completion land the load at the original start point.
7. On completion of all the exercises, configure the crane for travel.
8. Reverse the crane into the confined space, being no wider than the width of the crane plus 900mm
9. Travel the crane to a park position, shut down and secure.

Note:

- Before carrying out any lifts, the candidate must confirm the total weight of the load with the instructor and ensure that the Rated Capacity Indicator (R.C.I.) is programmed correctly for the falls of rope, radius, boom length etc. The instructor must confirm that the R.C.I., programming is correct.

- All loads must be placed within 500 mm of a given position. The instructor shall determine that position.
- All lifting and landing movements to be under directions of a signaller.
- Items 3, 4, 5, 6 and 7 may be carried out in any order.
- Item 6 may be incorporated with items 3, 4, or 5.

Underpinning Knowledge

The candidate will answer one instructor derived question from each listed topic.

1. Terminology relating to truck mounted cranes.
2. Fitting different types of lattice type extensions.
3. Road Traffic Act requirements.
4. Certification and duties charts.