

A35

Crawler – Tractor/Side Boom

Intermediate Certificate

Unit A35 Crawler – Tractor/Side Boom

Learning outcomes

On completion of this unit, the candidate will be able to:

1. Identify the basic construction, purpose and function of components and the purpose and use of all controls and gauges.
2. Identify and comply with manufacturers' instructions in accordance with the operator's handbook, other information sources i.e. duties charts, and applicable legislation.
3. Explain all relevant documentation.
4. Carry out pre-start and running checks.
5. Set side boom for site travel.
6. Travel over different types of terrain, including rough undulating ground and corners, with and without a load.
7. Manoeuvre in confined areas using forward and reverse direction.
8. Set up side boom to pick up various loads.
9. Lift and place loads at both minimum and maximum radius.
10. Recognise and respond to given signals or instructions.
11. Explain the reasons for the moveable counterweight.
12. Explain precautions to be taken for overhead services and other hazards.
13. Keep within safe working parameters.
14. Put machine in out-of-service condition.
15. Explain the loading and unloading procedures on and off a transporter.
16. Explain the rigging and de-rigging procedures.

Evidence requirements

To achieve the learning outcomes the candidate must complete a theory test and a practical

Practical Test

A. Equipment specification

1. Serviceable crawler – tractor/side boom that meets current legislation, fitted with standard side boom equipment, and the operator's manual.
2. An area of ground incorporating level and uneven terrain, and a trench at least 1 metre in depth to place a steel tube as in item 3.
3. A length of steel tube of a known weight, which must be a minimum of 4 metres long and 0.5 of a metre in diameter.
4. Suitable certificated lifting accessories for the tube in item 3.
5. Cones/materials etc., to create restrictions for travelling and manoeuvring.
6. Slinger/signaller assistance.

B. Exercise specification

The candidate is required to:

1. Carry out full pre-start and running checks as required by the manufacturer.
2. Confirm the code of signals with the slinger/signaller.
3. Prepare the side boom for travel, and travel the machine to the pick up and carry area. The route is to include passing through a restriction being of no more than the machine width plus 800 mm, plus left- and right-hand turns.
4. Set the side boom to pick up the steel tube, and travel over level and uneven terrain to the set down position.
5. Set the side boom to place the tube into the trench to an agreed position, following given signals.
6. On completion of item 5, lift the tube clear of the trench, and travel back to the start position.
7. Place the tube at ground level, park and secure the side boom.

The practical test is marked using the Operator Assessment Form (sections A and B). The candidate must also complete a theory test paper which is centrally set by Lantra Awards and marked by the assessor. For this unit, there is a maximum of 30 marks available and the pass mark is 80% (24 or more marks for correct answers). The theory test mark is entered on the Operator Assessment Form (section C). Candidates must pass all three sections to achieve the unit.