

A34

Crawler – Tractor/Dozer Intermediate Certificate

Unit A34 Crawler – Tractor/Dozer

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. Carry out all pre-use and running checks.
4. Set the dozer for site travel.
5. Travel over different types of terrain, including rough undulating ground.
6. Travel up and down substantial inclines.
7. Manoeuvre in confined areas using forward and reverse direction.
8. Explain precautions to be taken for underground services and other hazards.
9. Form different sizes of stockpiles by cutting below ground level.
10. Cut, side-cast and spread material using the blade at an angle.
11. Spread and level stockpiles to specification.
12. Place the dozer in an out-of-service condition.
13. Explain the loading and unloading procedures on and off a transporter.

Evidence requirements

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

Practical Test

A. Equipment specification

1. Serviceable crawler dozer that meets current legislation, fitted with a straight blade having a tilt facility, with the operator's manual.
2. An area of ground, clear of hazards which must include:
 - a) uneven rough terrain
 - b) a slope(s) not less than 18% (1:5.5) incline having sufficient manoeuvring room at the top and bottom
 - c) an area to allow excavations up to 2 metres deep and 30 metres long
 - d) an embankment at least 30 metres in length.
3. Cones/materials etc., to create restrictions for travelling and manoeuvring.
4. Appropriate marking, sighting and lining equipment to ensure excavation levels and centres.

B. Exercise specification

The candidate is required to:

1. Carry out full pre-start and running checks as required by the manufacturer.
2. Prepare the dozer for travel and travel to the excavating area. The route is to include:
 - a) travelling up and down the incline(s)
 - b) passing through a restriction being of no more than the width of the dozer plus 800 mm
 - c) travelling over rough, uneven terrain.
3. Set the dozer to excavate a straight trench to a depth of 1 metre 35 mm and form a stockpile. The area must be a minimum of 20 metres long by 1 x width of the blade. The finished excavated area must be a minimum of 10 metres long.
4. Backfill the area from the stockpile in layers to match the existing ground contours.
5. On completion of item 4, set the dozer to side-cast material from the embankment 1 x the blade width for a minimum length of 30 metres.
6. Spread the side-cast material to blend with the surrounding area.
7. Travel the dozer to a park position, shut down and secure.

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 35 marks available and the pass mark is 80% (28 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.