

A33

Agricultural Tractor

Intermediate Certificate

Unit A33 Agricultural Tractor

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 and applicable legislation.
3. Carry out all pre-use and running checks.
4. Set the tractor for site and road travel.
5. Travel over varying types of terrain, including rough undulating ground with various mounted and trailed implements.
6. Travel up and down substantial inclines with various mounted and trailed implements.
7. Manoeuvre in confined areas with various mounted and trailed implements, using forward and reverse direction.
8. Explain precautions to be taken for underground and overhead services and other hazards.
9. Attach various mounted and trailed implements to the tractor.
10. Connect and operate various types of Power Take Off (PTO) driven implements.
11. Place the tractor in an out-of-service condition.
12. 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

Equipment specification

1. Serviceable agricultural tractor that meets current legislation, equipped with an appropriate draw-bar or hook, with the operators manual.
2. A compatible two-wheeled trailer containing a full load, or a fully laden bowser.
3. A compatible three-point linkage mounted implement and a PTO-driven implement.
4. A driving area which must include:
 - a) uneven, rough terrain
 - b) a slope(s) not less than 18% (1:5.5) incline with sufficient manoeuvring room at the top and bottom.
5. A confined space for reversing a trailer into.
6. 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 as required by the manufacturer.
2. Prepare the tractor for travel, and travel to the implement pick up point.
3. Attach the two-wheeled trailer or bowser and travel to the confined space area. The route must include sharp turns, inclines and rough, uneven ground.
4. Reverse the trailer or bowser into the confined space, being no wider than the width of the trailer plus 800 mm. Remove the trailer in this space.
5. Attach an implement equipped with a PTO drive.
6. Connect the PTO drive and check for correct running. When completed, remove the implement.
7. Attach a three-point linkage mounted implement and travel over the route as in item 3.
8. Carry out a hill start.
9. Remove the implement.
10. Travel the tractor to a park position, shut down and secure.

Notes:

Combination implements may be used to cover the items 3 and 5, (i.e. towed with PTO drive) and 5 and 7 (i.e. a three-point linkage mounted and PTO-driven).

Item 8 may be incorporated with items 3 or 7.

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 40 marks available and the pass mark is 80% (32 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.