

A31

Ride-on Roller

Intermediate Certificate

Unit A31 Ride-on Roller

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 roller for site travel.
5. Travel over differing types of terrain, including undulating ground.
6. Manoeuvre in confined areas using forward and reverse direction.
7. Set the roller for compaction duties.
8. Prepare an area prior to compacting, i.e. traffic/personnel management etc.
9. Compact different materials to given instructions.
10. Compact up to supported and unsupported edges.
11. Compact against radii.
12. Compact around obstructions.
13. Place the roller in an out-of-service condition.
14. Recognise compacted and uncompacted areas.
15. State conditions that may cause instability of the roller.
16. State safety procedures when working up to unsupported edges.
17. Explain safety procedures when compacting on inclines.
18. 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 ride-on roller that meets current legislation, with the operator's manual.
2. A working area having a straight run of not less than 15 metres in length with an uncompacted area of at least 12 metres. The remaining 3 metres may contain a hard standing, and:
 - a) a supported edge on one side and an unsupported edge on the other. The area must be a minimum of 3 x the drum width of the roller

or

 - b) an unsupported edge 1.5 x the width of the roller, and a supported edge 1.5 x the width of the roller, which may be in a different area.
3. A working area containing a radius of between 5 and 10 metres. The edge of the radius must be supported. The compactable area must be a minimum of 3 x drum width. This may be included with or separate from the straight area as in item 2.
4. A material able to be compacted, which can highlight operating errors (i.e. on overlaps and direction changes).
5. An object i.e. road cone simulating an obstruction, situated centrally on the uncompacted area of, or one of, the straight run(s).
6. An area for driving, containing undulating ground and slight gradients.
7. Cones/barriers to set up an exclusion zone and create restrictions for manoeuvring.

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 roller for travel.
3. Travel to the compacting area and pass through a chicane in a forward and reverse direction, executing full right- and left-hand turns. There must be a clearance of no more than 300 mm between the machine and chicane. The travel route must include the undulating terrain and a gradient.
4. Set up exclusion zones as appropriate for the working area or areas.
5. Compact up to the supported and unsupported edges, proximity dependent on type of machine, of the straight part of the working area or areas using **one** pass, whilst negotiating the obstruction. The vibratory system must be used if fitted.
6. Compact the radius.
7. On completion of the exercise, travel the roller 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.