

A17

Telescopic Handler

Intermediate Certificate

Unit A17	Telescopic Handler	
	Industrial telescopic	(Option A)
	Telescopic handler up to 9 metres	(Option B)
	Telescopic handler all sizes excluding 360 slew	(Option C)
	Telescopic handler all sizes including 360 slew	(Option D)

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. load charts and applicable legislation.
3. Explain all relevant documentation.
4. Carry out pre-use and running checks.
5. Configure the telescopic-handler for site and road travel.
6. Travel over differing types of terrain, including rough undulating ground (not applicable to industrial telescopic) and substantial inclines, both with and without a load.
7. Manoeuvre in confined areas using forward and reverse direction, both with and without a load.
8. Set the telescopic handler in order to lift various loads.
9. Lift various loads within the full working range of the telescopic handler.
10. Ensure load integrity and security.
11. Transport loads.
12. Place and retrieve loads accurately at various points.
13. Place and retrieve loads from vehicle bed or trailer.
14. Explain precautions to be taken for overhead services and other hazards.
15. Keep within safe working parameters.
16. Place the machine in an out-of-service condition.
17. Explain the loading and unloading procedure 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 telescopic handler which meets current legislation and has:
 - a) standard forks
 - b) a ROPS, FOPS, and seatbelt
 - c) rough terrain capability (not applicable for industrial telescopic endorsement).
 - d) with the operator's manual.
2. Loads of known weights to consist of:

Load A: 1 x load not less than 50% of the forklift's rated capacity
Load B: 3 x similar size palletised loads suitable for stacking safely
Load C: 1 x load of a weight less than the tele-handler's lift capacity at full horizontal reach.
3. Lorry bed equipped with a headboard (this may be simulated but **must** have the same dimensions including the ground/bed height).
4. Loading out tower not less than 75% of tele-handler's maximum lift height, able to safely support **Load A**.
5. An area which must have:
 - a) level ground
 - b) rough, uneven terrain (not applicable for industrial telescopic)
 - c) a slope(s) not less than 18% (1:5.5) incline with sufficient manoeuvring area both at top and bottom
 - d) a straight run of at least 20 metres.
6. Cones/materials etc., to create restrictions for travelling and manoeuvring.

B. Exercise specification

Note: Prior to the start of the test, the instructor must ensure that the forks are set to the widest position.

The candidate is required to:

1. Carry out full pre-use checks as required by the manufacturer.
2. Prepare the forklift for travel, and travel to the location of **Load A**. The route is to include:
 - a) travelling up and down the slope(s)
 - b) travelling over rough, uneven terrain (not applicable for industrial telescopic)
 - c) passing through a chicane executing full right- and left-hand turns in a forward and reverse direction. There must be a clearance of no more than 300 mm or 10% of the machine's width (whichever is the greater) between the chicane sides and the forklift, when executing each turn.
3. Pick up **Load A** and travel the route again as in item 2. Whilst travelling up the incline, stop and re-start the forklift (the chicane may be adjusted to compensate for load width).

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Exercise specification continued

4. Place **Load A** onto the loading out tower. When placed, manoeuvre the forklift away from the tower.
5. Retrieve **Load A** and lower to ground level.
6. Travel with **Load A**, in reverse, in a straight line for a minimum distance of 20 metres. When completed place the load at a given point.
7. Place 3 x **Load B** onto the vehicle bed with 2 loads squared up to the headboard, following a sequence of loading the vehicle bed fully. There must be no more than 75 mm clearance between the loads, and the loads and vehicle headboard.
8. Remove 3 x **Load B** from the vehicle bed and stack vertically on top of one another. The stacking place must be at least 20 metres from the vehicle bed.
9. On completion of item 8, de-stack 3 x **Load B** and place alongside each other with no more than 75 mm clearance between each load.
10. Pick up **Load C** and place at ground level at a given point, which can only be accessed by using full horizontal reach of the tele-handler. 360° slew tele-handlers must undertake this task whilst employing the stabilisers, with **Load C** placed at 90° from the pick up point.
11. Demonstrate undercutting by both lifting and placing a load.
12. Travel the tele-handler to a park position, shut down and secure.

Note: Item 11 may be incorporated with any of the lifting manoeuvres.

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.