

Title	Prepare for, and carry out, mould-board type ploughing		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to: describe mould-board type ploughing; clarify job instructions; select and prepare equipment and machinery; prepare to cultivate soil using a mould-board type plough; cultivate soil using a mould-board type plough; and carry out post-operational procedures.
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Classification	Rural Contracting > Agricultural Contracting
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Available grade	Achieved
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Pre-requisites	Class of driver licence and any driver licence endorsement appropriate for the vehicle being driven.
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with relevant legislative and industry requirements.
- 2 Legislation and references relevant to this unit standard include:
 - Health and Safety at Work Act 2015, available from www.legislation.govt.nz;
 - *Land Transport Rule – Heavy Vehicles 2004*, available from www.nzta.govt.nz;
 - and all subsequent amendments and replacements.
- 3 Definition
Industry requirements refer to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, work plans, traffic management plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer's requirements, contract specifications, manuals, procedural documents.

Outcomes and performance criteria

Outcome 1

Describe mould-board type ploughing.

Performance criteria

- 1.1 Mould-board type ploughing is described in terms of its purpose.
Range soil cultivation, weed control.
- 1.2 Machinery and equipment and their set-up for mould-board type ploughing are described in terms of conditions and results to be achieved.

Outcome 2

Clarify job instructions.

Performance criteria

- 2.1 Job instructions are clarified.

Outcome 3

Select and prepare equipment and machinery.

Performance criteria

- 3.1 Equipment and machinery appropriate for the work are selected.
- 3.2 Equipment and machinery are checked and are fit for purpose; and, if required, corrective action is taken.
- 3.3 Equipment and machinery are set up for the planned operation.
Range may include but is not limited to – tractor, mould-boards, shares, skimmers, coulters, attachments; evidence of three pieces of equipment or machinery is required.

Outcome 4

Prepare to cultivate soil using a mould-board type plough.

Performance criteria

- 4.1 Cultivation hazards are identified and controlled.
- 4.2 Ground conditions are checked for suitability for ploughing.
- 4.3 Cultivation work pattern takes account of the contour to minimise empty running.
Range strikeout procedure, furrow continuity, headland procedure, finish procedure, field history.
- 4.4 Equipment and machinery adjustments made are appropriate for the work to be carried out and within the capabilities of the equipment in use.

Outcome 5

Cultivate soil using a mould-board type plough.

Performance criteria

- 5.1 Soil is ploughed to the required depth in accordance with client requirements.
- 5.2 Soil is ploughed in accordance with predetermined work pattern and adjustments are made to suit current conditions.
- 5.3 Soil is ploughed leaving straight and even furrows and no uncultivated areas.
- 5.4 Equipment and machinery are monitored during use, and required adjustments are made in accordance with the requirements of the job.

Outcome 6

Carry out post-operational procedures.

Performance criteria

- 6.1 Equipment and machinery are shut down and stored.
- 6.2 Equipment is cleaned and lubricated, and any damage or faults are repaired, replaced, or reported.
- 6.3 Documentation for the operation is completed and stored in accordance with client requirements.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 June 2007	31 December 2016
Review	2	16 July 2015	31 December 2023
Review	3	26 August 2021	N/A

Consent and Moderation Requirements (CMR) reference	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Connexis - Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.