

Title	Demonstrate knowledge of crop production for rural contracting work		
Level	3	Credits	20

Purpose	People credited with this unit standard are able to demonstrate knowledge of seedbed preparation, crop sowing, and crop growth conditions and maturity.
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Classification	Rural Contracting > Agricultural Contracting
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Available grade	Achieved
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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;
 - Resource Management Act 1991, available from www.legislation.govt.nz;
 - NZS 8409:2004 *Management of agrichemicals*, available from www.standards.govt.nz;
 - and all subsequent amendments or replacements.
- 3 Definitions

Crops refer to pasture, cereals, row crops, peas, brassicas, root crops, small seeds.

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.

Weeds and other pests refer to pest plants, plant pests, plant disease organisms, and animal disease organisms.
- 4 The range for this unit standard is three different crops.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of seedbed preparation.

Performance criteria

- 1.1 The different types of seedbed required for each of the crops are described in terms of required conditions, climate, soil type, soil structure, soil depth, moisture content, crop residues, stubble, hazards, and topography.
- 1.2 The characteristics of each different seedbed which favour a particular crop are described in terms of tilth, compaction, levelling, and seed size.
- 1.3 Different methods of seedbed preparation are described in terms of sequence of preparation, cultivation equipment, effect on soil properties and tilth, and influence of topography, soil type, climate, and location.

Range cultivation equipment may include but is not limited to – disc and tine drawn cultivators, harrows, rollers, power take off cultivators, levellers, plough;
evidence of two pieces of cultivation equipment is required.

Outcome 2

Demonstrate knowledge of crop sowing.

Performance criteria

- 2.1 The fertiliser requirements of each crop are described in terms of application rate, timing, soil type, and soil fertility.
- 2.2 Fertilisers are described in terms of their components and methods of application.
- 2.3 The calibration of seeding machines is described in terms of the type of seeding machine, sowing rate, depth of sowing, seed size, and fertiliser application rate.
- 2.4 Different methods of seed sowing are described in relation to sequence of operations, seeding equipment, sowing rate, depth of sowing, seed size, fertiliser application rate; effect on soil properties and tilth, and influence of topography, soil type, climate, and location.

Outcome 3

Demonstrate knowledge of crop growth conditions and maturity.

Performance criteria

- 3.1 Pre-and post-emergence control of weeds and other pests is described in terms of maximising crop yield return.
- Range as applicable – agrichemical, non-agrichemical.
- 3.2 Fertiliser, shelter, and water management are described in terms of maximising crop yield return.

3.3 Crop maturity is described in terms of indicators for each crop.

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	23 July 1996	31 December 2014
Revision	2	5 January 1999	31 December 2014
Revision	3	18 January 2000	31 December 2014
Review	4	31 October 2002	31 December 2014
Review	5	25 June 2007	31 December 2016
Review	6	16 July 2015	31 December 2023
Review	7	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.