

41305 Plan, manage and monitor livestock feed production activities

Kaupae Level	4
Whiwhinga Credit	15
Whāinga Purpose	This skill standard intended for learners working in pastoral livestock farming. Learners will be able to develop a crop rotation plan for feed production, manage seedbed preparation, and coordinate and monitor planting and crop management activities to meet feed production requirements. This skill standard aligns with the New Zealand Certificate in Agriculture (Level 4) [Ref: 5677].

Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Develop a crop rotation plan for feed production.	a. Develop a crop rotation plan for feed production based on farming system and livestock production targets.
	b. Justify the proposed crop rotation plan in relation to relevant feed production, agronomic, and operational factors.
	c. Develop an operational plan to implement a crop rotation plan.
2. Manage seedbed preparation for feed production.	a. Communicate requirements for seedbed and seed with stakeholders.
	b. Establish and correct nutrient levels in soil.
	c. Identify seedbed preparation issues and recommend corrective actions.
	d. Implement and monitor biosecurity practices during seedbed preparation.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
3. Coordinate and monitor planting and crop management activities to meet feed production requirements.	a. Confirm planting and crop management activities comply with the farm's environment plan and relevant consenting requirements.
	b. Coordinate planting and crop management activities in accordance with the crop rotation and operational plans.
	c. Apply relevant industry information to support decisions during planting and crop management activities.
	d. Monitor and report on crop inputs and crop condition in relation to feed production requirements.

Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

All activities must be carried out in accordance with workplace health and safety requirements, workplace procedures, and manufacturer's specifications.

Providers must give due consideration to embedding ngā kaupapa (principles) o Te Tiriti o Waitangi when designing delivery activities relevant to this standard. These principles are outlined in [Guidelines for Providers: Embedding Tirohanga Māori](#).

Providers must give due consideration to the needs and values of Pacific peoples and other cultural groups when designing delivery activities relevant to this standard, ensuring practices are inclusive and equitable.

Ākonga/learners should be assessed against this standard in a real-life context using naturally occurring evidence. A verifier's checklist with appropriate comments confirming competency is acceptable if accompanied by evidence that includes examples from the learner's performance.

Definition

Livestock feed use refers to crops grown or managed for livestock consumption, including grazing, silage, baleage, hay, forage, grain or supplementary feed, where crop selection, management and timing are determined by livestock nutritional requirements, feed quality, and intended end use.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

Crop rotation plan for feed production

- farming system and livestock production targets, e.g. stocking class, feed demand, production timing.
- crop selection and suitability for livestock feed use, e.g. crop type, crop end use, expected yield, feed quality.

- soil conditions and field history, e.g. soil testing, soil structure, nutrient status, previous crops.
- crop types and effect on soil.
- field history.
- returns and margins.
- soil moisture requirements and planning tools, e.g. plant choice, water requirements, seasonal rain outlook, irrigation availability.
- reasons for crop rotation, e.g. soil contamination, disease and pest mitigation, nutrient balance, implications of successive crops.
- order of crop rotation, e.g. grass to grass, grass to crop to grass/crop.
- role of pasture in crop rotation.
- yield requirements, e.g. type and number of animals being fed.
- operational planning, e.g. arranging machinery, seed, human resources.

Seedbed preparation

- methods for preparing seedbed.
- appropriate seed quality in terms of purity and germination.
- communicating seedbed and seed requirements with stakeholders, e.g. contractors, suppliers, farm staff.
- soil testing and nutrient management, e.g. nutrient deficiencies, nutrient correction, pH, fertiliser requirements.
- identifying seedbed preparation issues and recommending corrective actions, e.g. compaction, drainage, seedbed condition, nutrient deficiency.
- biosecurity practices during seedbed preparation, e.g. machinery hygiene, preventing cross contamination from machinery or seed.
- contractor engagement and coordination.

Planting and crop management

- planning and coordinating planting and crop management activities to meet feed production requirements, e.g. timing, labour, contractor availability, machinery, feed demand, crop end use.
- farm environment plan requirements and relevant consenting requirements, e.g. nutrient application, irrigation, sediment management, agrichemical use.
- industry information to inform crop management decisions, e.g. seasonal outlooks, agronomic advice, feed demand, soil moisture, weather and crop growth information.
- weed management, e.g. agrichemical application timing, mechanical control, crop rotation impact.
- nutrient application, e.g. fertiliser type, rate, and timing.
- factors affecting crop growth: soil moisture and temperature, nutrient levels.
- crop growth stages relevant to crop type.
- monitoring and reporting crop inputs and crop condition in relation to feed production requirements, e.g. growth, feed quality, pests, weeds, nutrient status.

Rauemi | Resources

- [Health and Safety at Work Act 2015](#).
- Local council regulations.
- [Feed planning resources](#) (Beef + Lamb).
- [Feeding resources](#) (DairyNZ).
- [Feeding resources](#) (Deer Industry NZ).
- Farm-specific Standard Operating Procedures.

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Food and Fibre Industry Skills Board
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Agriculture, Forestry and Fisheries > Agriculture > Farming Skills
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0052

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	27 August 2026	N/A
Kōrero whakakapinga Replacement information	N/A		
Rā arotake Planned review date	31 December 2031		

Please contact the Food and Fibre Industry Skills Board at info@foodandfibreisb.nz to suggest changes to the content of this skill standard.