

41275 Develop, implement, and monitor a crop harvesting plan

Kaupae Level	4
Whiwhinga Credit	20
Whāinga Purpose	This skill standard is intended for learners working in arable farming. They will be able to develop a crop harvesting plan, implement the plan by monitoring crop and environmental conditions and carrying out harvesting operations, and monitor harvested product and manage crop residue. 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 harvesting plan.	a. Develop a harvest schedule from the crop growth plan.
	b. Develop operational planning to support a harvest schedule.
2. Monitor crops against harvesting conditions.	a. Compare crop growth stage against harvesting plan and adjust the harvest schedule or timing as required.
	b. Monitor weather and adjust operational planning to accommodate changes to conditions.
	c. Communicate crop specifications for harvest with stakeholders.
3. Harvest crops.	a. Confirm settings on machinery are correct for crop type and harvest sample requirement.
	b. Check harvest sample and machine losses and make adjustments as required.
	c. Carry out harvesting operations in accordance with crop specifications and harvest plan requirements to achieve optimal results.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
4. Monitor product and manage crop residue.	a. Monitor harvested product for moisture content, temperature and contaminants, as appropriate to crop.
	b. Manage crop residue according to crop species, crop rotation plan and regulatory 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.

Evidence for harvesting operations may include actual crop harvesting or related operations that support implementation of the crop harvesting plan.

Definition

Harvesting operations refer to activities carried out to implement a crop harvesting plan. These may include harvesting the crop, preparing and adjusting machinery, checking harvest samples, monitoring crop losses, transporting harvested product, managing storage or drying requirements, or making operational adjustments to meet crop specifications and harvest plan requirements.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

Harvest planning

- harvest scheduling e.g. timing based on crop maturity and crop growth plan
- operational planning e.g. machinery allocation, staff rosters, transport logistics, storage and drying requirements (silo management, ventilation, drying times and moisture targets for safe storage), contingency planning for weather events
- harvest scheduling adjustments based on crop development stage and environmental conditions.

Harvesting conditions

- weather monitoring and impacts on harvest operations e.g. rainfall, wind speed, temperature extremes
- crop specifications for harvest e.g. grain moisture content, leaf contamination risk, quality requirements, seed quality
- moisture requirements for storage and processing e.g. target moisture percentages, drying implications
- communication of crop specifications and harvest requirements with stakeholders.

Harvesting operations

- machinery preparation and settings e.g. combine harvester, header type, cylinder speed, fan speed
- harvest sample assessment and crop loss monitoring e.g. grain loss measurement, sieve analysis, adjustment of machine settings
- operational practices to reduce waste and improve efficiency e.g. ground speed, cut height, header angle, swath width
- operational adjustments to meet crop specifications and harvest plan requirements.

Monitoring harvested crop

- monitoring harvested product condition e.g. moisture content, temperature, contaminants, quality indicators
- risks to harvested product e.g. spoilage, heating, contamination, storage risks
- crop residue management e.g. spraying, ploughing, incorporation, burning where permitted
- regulatory requirements related to crop residue management e.g. fire restrictions, nutrient runoff controls, environmental compliance requirements.

Rauemi | Resources

- [Health and Safety at Work Act 2015](#).
- [Resources](#) (Foundation for Arable Research).
- 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 > Arable Farming
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	30 July 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.