

<b>Title</b>	<b>Manage the harvest of a fruit crop</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	This unit standard is for people working in fruit production. People credited with this unit standard are able to: determine crop quality and yield; determine crop readiness; plan a harvest strategy; inform staff of workplace hazards; manage containers and the dispatch of the crop from the field; and implement the harvest strategy.
----------------	---

<b>Classification</b>	Horticulture > Fruit Production
-----------------------	---------------------------------

<b>Available grade</b>	Achieved
------------------------	----------

<b>Entry information</b>	
<b>Recommended skills and knowledge</b>	Unit 21214, <i>Supervise fruit crop harvesting</i> .

### Explanatory notes

- 1 *Workplace procedures* refer to verbal or written instructions to staff on procedures for the worksite and equipment.
- 2 Legislation relevant to this unit standard includes but is not limited to the Health and Safety in Employment Act 1992, and the Resource Management Act 1991.
- 3 The relevant Occupational Safety and Health Guideline for this unit standard is the *Guideline for the Provision of Safety Health and Accommodation In Agriculture* available at <http://www.osh.govt.nz/order/catalogue/21.shtml> .

### Outcomes and evidence requirements

#### Outcome 1

Determine crop quality and yield.

#### Evidence requirements

- 1.1 Crop yield is assessed by measurements and estimates made in the field.

1.2 Crop quality is assessed by testing quality parameters before harvest.

Range may include but is not limited to – brix level, flesh firmness, skin colour, starch level.

## **Outcome 2**

Determine crop readiness.

### **Evidence requirements**

2.1 Pre-harvest samples are taken and tested or given or sent to the laboratory or marketing agent to confirm the maturity of the crop.

Range may include but is not limited to – crop appearance, specification charts, aids or devices including penetrometers and refractometers, and external assessments carried out by industry specialists.

2.2 Weather patterns are monitored to assist in estimating the rate of ripening.

2.3 Crop maturity is monitored to anticipate when the crop will be at its optimum and when the harvest will begin.

## **Outcome 3**

Plan a harvest strategy.

### **Evidence requirements**

3.1 Harvest commencement date and time span for harvest is estimated so that the crop will be harvested in optimum condition.

3.2 Equipment and labour resources required for harvest are calculated from the size of the crop and time limitations on the harvest.

3.3 Equipment and labour resources required are analysed against those available in the workplace and the amount of labour and equipment to be contracted is determined.

3.4 Equipment required for harvest is planned for in order that it is ready at the appropriate time.

3.5 Pre-harvest pest control treatments, if necessary, are planned for in accordance with manufacturers, market, and workplace requirements.

3.6 Order of crop harvest is determined according to crop maturity and quality constraints.

## **Outcome 4**

Inform staff of workplace hazards.

**Evidence requirements**

- 4.1 People involved in harvesting are informed of Occupational Safety and Health (OSH) hazards that may be present, their responsibilities for action, and the systems that are in place to deal with such hazards in accordance with regulatory and workplace requirements.

**Outcome 5**

Manage containers and the dispatch of the crop from the field.

**Evidence requirements**

- 5.1 Fruit bins or other containers are located in the orchard to enable efficient harvesting.
- 5.2 Sufficient fruit bins or other containers are provided to ensure efficient harvest and flow of crop.
- 5.3 Harvested crop is stored temporarily in structures, as required, that meet market needs and workplace requirements.
- Range may include but is not limited to – shade structures, coolstores, or covered buildings for the purpose of keeping fruit temperature down.
- 5.4 Resources required for crop transport are evaluated, and contractors are engaged where required.

**Outcome 6**

Implement the harvest strategy.

**Evidence requirements**

- 6.1 Weather permitting, pre-harvest pest control treatments, as necessary, are applied in accordance with workplace requirements and harvesting plan.
- 6.2 Labour and equipment required for the harvest is organised to be ready and available at the scheduled place and time.
- 6.3 Harvest is begun at the scheduled time as determined by market requirements and workplace procedures.
- 6.4 Harvesting operations are monitored regularly and adjusted to allow for weather, contractor and equipment maintenance needs.
- 6.5 Truck, tractor, and harvest operators are instructed on procedures to enable delivery of each crop load at maximum quality.

- 6.6 Crop is monitored for quality during harvest and instructions on standards given to harvest operators as necessary.

<b>Replacement information</b>	This unit standard and unit standards 19925, 21214, 22187 were replaced by unit standard 29889.
--------------------------------	---

**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 July 2005	31 December 2020
Revision	2	24 February 2006	31 December 2020
Review	3	16 February 2017	31 December 2020

<b>Consent and Moderation Requirements (CMR) reference</b>	0052
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.