

Title	Assist with the operation of a farm dairy for milk harvesting		
Level	3	Credits	10

Purpose	<p>This unit standard is intended for people who are working on a dairy farm.</p> <p>People credited with this unit standard are able to: describe key components and functions of a milking plant; describe the purpose of cleaning chemicals, and clean the milking plant, and vat or silo; demonstrate knowledge of milk cooling systems; assist with the maintenance of a cluster; and isolate milk unsuitable for collection.</p>
----------------	--

Classification	Agriculture > Dairy Farming
-----------------------	-----------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Legislation and regulations relevant to this unit standard include but are not limited to:
 - Animal Welfare Act 1999;
 - Health and Safety at Work Act 2015;
 - Code of Welfare relevant to the type of livestock.
- 2 Welfare codes for all types of livestock are available from <http://biosecurity.govt.nz>.
- 3 Definitions

Cups can also be referred to as clusters.

Milking plant is defined as the components involved in the milking process, between cluster and bulk milk tank.

On-farm quality management procedures refer to the documented procedures for farm dairy hygiene practices, which must meet legislative and dairy company requirements. On-farm quality management procedures are available from all dairy companies.

Workplace procedures refer to the verbal and written instructions to staff on procedures for animal health, welfare and management, and include local dairy company standards and requirements.
- 4 References

NZCP-1, New Zealand Dairy Industry Farm Dairy Code of Practice, New Zealand Food Safety Authority, ISBN 0-908946-00-7.

DPC 2: Animal Products (Dairy) Approved Criteria for Farm Dairies, referred to as DPC 2. Available from the NZ Food Safety Authority website, www.nzfsa.govt.nz.

Outcomes and performance criteria

Outcome 1

Describe key components and functions of a milking plant.

Performance criteria

- 1.1 Identify key components of a milking plant and describe their function.
- 1.2 Describe milking plant functions that indicate the milking plant is operating efficiently.
- Range evidence of two functions is required.
- 1.3 Describe milking plant functions that indicate the milking plant is operating inefficiently.
- Range evidence of two functions is required.

Outcome 2

Describe the purpose of cleaning chemicals, and clean the milking plant, and vat or silo.

Performance criteria

- 2.1 Describe the purpose of cleaning chemicals used to maintain plant, and vat or silo hygiene.
- 2.2 Calculate detergent quantities for milking plant cleaning in accordance with the established cleaning routine.
- 2.3 Implement milking plant cleaning routine in accordance with workplace procedures.
- 2.4 Safely handle and prepare cleaning chemicals in accordance with workplace procedures.
- 2.5 Set up cleaned milking plant, vat or silo for next milking in accordance with workplace procedures.

Outcome 3

Demonstrate knowledge of milk cooling systems.

Performance criteria

- 3.1 Describe a milk cooling system in terms of primary and secondary cooling.
- 3.2 Identify secondary cooling temperature guidelines according to on-farm quality management procedures.

- 3.3 Measure and record secondary cooling temperature according to on-farm quality management procedures.
- 3.4 Demonstrate turning on and off primary and secondary cooling systems.

Outcome 4

Assist with the maintenance of a cluster.

Performance criteria

- 4.1 Check the normal function of the air admission hole.
- 4.2 Replace a cup liner and short pulse tube.
- 4.3 Remove and replace a cluster bowl.
- 4.4 Record maintenance events and repairs.

Outcome 5

Isolate milk unsuitable for collection.

Performance criteria

- 5.1 Identify livestock whose milk is unsuitable for collection.
- 5.2 Divert milk unsuitable for collection to prevent contamination of bulk milk.
- 5.3 Isolate milk unsuitable for collection in accordance with on-farm quality management procedures.
- 5.4 Use correct vat locks and labelling of milk vats for milk that is unsuitable for collection according to on-farm quality management procedures.

Replacement information	This unit standard replaced unit standard 24549, unit standard 24550, and unit standard 28938.
--------------------------------	--

Planned review date	31 December 2024
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference	0052
--	------

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

Comments on this unit standard

Please contact the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.