Title	**Demonstrate knowledge of how to produce premium quality cow's milk**		
Level	**4**	**Credits**	**4**

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the standards, tests, and factors that indicate premium quality cow's milk; and explain the factors that influence the yield and composition of cow's milk and their significance to the dairy producers.

Classification	Agriculture > Dairy Farming

Available grade	Achieved

Entry information	
Critical health and safety prerequisites	Open.

Explanatory notes

Definition

On-farm procedures – the verbal or written instructions to staff on procedures for animal health, welfare, and management, and include local dairy company standards and requirements.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of the standards, tests, and factors that indicate premium quality cow's milk.

Evidence requirements

1.1 Current industry and dairy company milk quality standards and tests are described in terms of their implications for on-farm procedures.

1.2 The components of a monthly supplier statement and daily tanker docket are described in terms of total kilograms of milk solids produced for the month, demerits, and average fat and protein test.

1.3 The implications of down graded milk indicated by milk quality tests are described in terms of their effects on farm income.

Range at least two milk quality tests.

1.4 Milk is described in terms of the factors that affect milk quality.

Range factors – coliform, thermoduric, somatic cells.

Outcome 2

Explain the factors that influence the yield and composition of cow's milk and their significance to the dairy producers.

Evidence requirements

2.1 Factors related to the dairy cow which affect the composition and yield of milk are described in terms of their influence and interrelationships.

Range feeding, breed, health, genetics, age, lactation length, stage of lactation, stage of gestation, cow condition, weather or climate.

2.2 Variations in milk composition and yield are described in terms of the economic significance to the dairy producers.

Range fat, protein ratios, water ratio, managing peak milk supply, milk solids.

Replacement information	This unit standard and unit standard 19090 have been replaced by unit standard 28855

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 April 2001	31 December 2020
Review	2	25 June 2002	31 December 2020
Review	3	17 July 2009	31 December 2020
Review	4	18 June 2015	31 December 2020

Consent and Moderation Requirements (CMR) reference	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.