

Title	Demonstrate knowledge of cow behaviour and reproduction, and perform calculations for artificial insemination		
Level	3	Credits	3

Purpose	<p>This unit standard is intended for people carrying out artificial insemination in the dairy industry.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: cow behavior; the reproductive organs and reproductive cycles of cows; factors influencing conception rates and calving patterns, and technologies available to condense calving patterns. People are also able to perform calculations related to artificial insemination.</p>
----------------	---

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

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

Guidance Information

Definitions

Organisational standards and procedures refer to the documented training policies and procedures for animal handling and insemination, which must be approved by an approved Animal Ethics Advisory Committee (AEAC).

Raw non-return rate is the average 18-24 day non-return rate based on a minimum of 100 female animals in the same broad geographic area and timeframe.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of cow behaviour.

Range evidence presented must be in accordance with the Health and Safety at Work Act 2015.

Performance criteria

1.1 Describe the situations or events which are likely to cause fear in cattle.

Range evidence of at least eight situations or events is required.

1.2 Describe the ways in which the handler can calm cattle when working in close proximity.

Range evidence of at least six ways is required.

1.3 Identify and describe the behavioural characteristics of cattle.

Range neutral, antagonistic, confident, submissive, alert before flight.

1.4 Identify and describe the common tail positions of cattle.

Range relaxed, frightened, threatening, galloping, playing.

1.5 Identify and describe the flight zone and balance lines of cattle when handling.

Outcome 2

Demonstrate knowledge of the reproductive organs and reproductive cycles of cows.

Performance criteria

2.1 Describe male and female reproductive organs of cows in terms of their structure and function.

2.2 Describe stages of the reproductive cycle in terms of their sequence, length of time, and seasonal occurrence.

Range ovulation, oestrus, mating, conception, anoestrus.

2.3 Identify at least two abnormalities which disrupt mating of cows in terms of their effect on reproductive organs.

Outcome 3

Demonstrate knowledge of factors influencing conception rates and calving patterns, and technologies available to condense calving patterns.

Performance criteria

3.1 Describe factors which influence optimum conception rates of cows.

Range includes but is not limited to – semen fertility, animal health, feeding, animal condition, submission rates, errors in heat detection.

3.2 Identify and describe technologies available to condense calving patterns.

Range may include but is not limited to – controlled internal drug release (CIDR), synchronisation; evidence of at least two is required.

Outcome 4

Perform calculations related to artificial insemination.

Range evidence presented must be in accordance with organisational procedures.

Performance criteria

4.1 Calculate submission rates.

4.2 Calculate raw non-return rates.

4.3 Calculate expected calving dates.

Replacement information	This unit standard replaced unit standard 25714.
--------------------------------	--

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	24 October 2019	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.