

Title	Demonstrate knowledge of cow reproduction and perform calculations for artificial insemination		
Level	3	Credits	2

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: the reproductive organs and reproductive cycles of cows; factors influencing conception rates and calving patterns, and technologies available to condense calving patterns; and perform calculations related to artificial insemination.</p>
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Classification	Agriculture > Dairy Farming
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Available grade	Achieved
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Guidance Information

- 1 Performance criteria must be consistent with all relevant legislation and subsequent amendments; this includes but is not limited to:
 - Animal Welfare Act 1999
 - Biosecurity Act 1993
 - Health and Safety at Work Act 2015
 - Organisational standards and procedures.
- 2 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.
- 3 All learning and assessment against this standard must be carried out in accordance with organisational standards and procedures.

Outcomes and performance criteria

Outcome 1

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

Performance criteria

- 1.1 Describe male and female reproductive organs of cows in terms of their structure and function.
- 1.2 Describe stages of the reproductive cycle in terms of their sequence, length of time, and seasonal occurrence.

Range ovulation, oestrus, mating, conception, anoestrus.
- 1.3 Identify at least two abnormalities which disrupt mating of cows in terms of their effect on reproductive organs.

Outcome 2

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

Performance criteria

- 2.1 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.
- 2.2 Describe technologies available to condense calving patterns.

Range may include but is not limited to – controlled internal drug release (CIDR), synchronisation.

Outcome 3

Perform calculations related to artificial insemination.

Performance criteria

- 3.1 Calculate submission rates.
- 3.2 Calculate raw non-return rates.
- 3.3 Calculate expected calving dates.

Replacement information	This unit standard was replaced by unit standard 31947.
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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	19 June 2009	31 December 2019
Review	2	26 July 2018	31 December 2020
Review	3	24 October 2019	31 December 2020

Consent and Moderation Requirements (CMR) reference	0052
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.