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| Title | Demonstrate knowledge of cattle reproductive organs, cycles, and processes | | |
| Level | 3 | Credits | 7 |

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| Purpose | People credited with this unit standard are able to demonstrate knowledge of: the reproductive organs of cattle; cattle reproduction and related management factors; the factors involved in achieving optimum conception rates in cattle; identifying and recording cattle on heat; and perform calculations. |
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| Classification | Agriculture > Cattle Farming |
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| Available grade | Achieved |
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Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of the reproductive organs of cattle.

Evidence requirements

- 1.1 Male and female reproductive organs are described in relation to their structure and function.
- Range male reproductive organs – scrotum, testes, epididymis, spermatic cord (vas deferens), sex glands, penis;
female reproductive organs – ovaries, oviduct (fallopian tubes), uterus, cervix, vagina, vulva.
- 1.2 Developmental stages of reproductive organs from immature to mature are described by age.
- 1.3 Types of abnormality and disease which disrupt mating are identified in terms of their effect on reproductive organs.
- 1.4 Castration and vasectomy of bulls is described in terms of the methods and purposes.
- Range methods include but are not limited to – surgical, ring;
purposes – prevention of mating, inhibition of secondary sex characteristics, teaser bull.

Outcome 2

Demonstrate knowledge of cattle reproduction and related management factors.

Evidence requirements

2.1 Stages of reproduction cycle are described in terms of their sequence, length of time, and seasonal occurrence.

Range ovulation, oestrus, mating, conception, anoestrus.

2.2 Animal activity at each stage of reproduction is described in terms of the role of hormones.

Range hormones – oestrogen, progesterone;
signs of normal behaviour, signs of abnormal behaviour,
physiological state and changes;
stages – ovulation, oestrus, mating, conception, anoestrus.

2.3 Animal health factors are described in terms of their effect on, and contribution to optimising, stages of reproduction.

Range includes but is not limited to – liveweight, good health, disease, metabolic diseases, abnormality and injury, preventative treatments, animal handling;
stages of reproduction – ovulation, oestrus, mating, conception, anoestrus.

2.4 Livestock reproduction is described in terms of the importance of nutrition.

Range results of under-feeding, over-feeding, and vitamin and mineral deficiencies.

Outcome 3

This unit standard is expiring

Demonstrate knowledge of the factors involved in achieving optimum conception rates in cattle.

Evidence requirements

3.1 Optimum conception rates are described in terms of the influencing factors.

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

Outcome 4

Demonstrate knowledge of identifying and recording cattle on heat.

Evidence requirements

4.1 Heat detection is described in relation to the use of teasers and detection aids.

- 4.2 Errors in heat detection are described in terms of the possible consequences.
- 4.3 Maintenance of cattle records, and their importance for mating management purposes is described.

Outcome 5

Perform calculations.

Evidence requirements

- 5.1 Submission rates and non-return rates for a herd of cattle are calculated.
- 5.2 Expected calving dates from mating dates are calculated.

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| Replacement information | Unit standards 1532, 1534, 19086, 24642 have been replaced by unit standard 28971 |
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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 | 25 June 2002 | 31 December 2020 |
| Review | 2 | 23 April 2008 | 31 December 2020 |
| Review | 3 | 16 July 2015 | 31 December 2020 |

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| 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>.

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.

This unit standard is
expiring