

Achievement Standard

Subject Reference	Agricultural and Horticultural Science 2.5		
Title	Demonstrate understanding of livestock reproductive techniques in commercial production in New Zealand		
Level	2	Credits	4
		Assessment	Internal
Subfield	Science		
Domain	Agricultural and Horticultural Science		
Status	Registered	Status date	17 November 2011
Planned review date	31 December 2019	Date version published	20 November 2014

This achievement standard involves demonstrating understanding of livestock reproductive techniques in commercial production in New Zealand.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Demonstrate understanding of livestock reproductive techniques in commercial production in New Zealand. 	<ul style="list-style-type: none"> Demonstrate in-depth understanding of livestock reproductive techniques in commercial production in New Zealand. 	<ul style="list-style-type: none"> Demonstrate comprehensive understanding of livestock reproductive techniques in commercial production in New Zealand.

Explanatory Notes

1 This achievement standard is derived from *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007, and is related to the material in the *Teaching and Learning Guide for Agricultural and Horticultural Science*, Ministry of Education, 2011 at <http://seniorsecondary.tki.org.nz>.

2 *Demonstrate understanding* involves describing the steps taken when performing each reproductive technique. Reference to the structure of livestock reproductive systems is required.

Demonstrate in-depth understanding involves an explanation of how the steps taken when performing each reproductive technique influence the success of the reproductive technique. Reference to livestock reproductive systems and the hormonal control relevant to the technique is required.

Demonstrate comprehensive understanding involves justification for the use of a selected reproductive technique in terms of timing, quantity and genetic potential, and the economics of production.

- 3 Techniques may include:
 - artificial insemination in livestock (cervical and uterine)
 - sire recording and selection
 - scanning
 - flushing
 - induction
 - embryo transfer
 - artificial hormone application (eg CIDR).
 - 4 Conditions of Assessment related to this achievement standard can be found at <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards>.
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Replacement Information

This achievement standard and AS91291 replaced AS90453.

Quality Assurance

- 1 Providers and Industry Training Organisations must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.
- 2 Organisations with consent to assess and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference

0233