

# NCEA Review and Maintenance Programme – 2026 updates

Review and maintenance work has been undertaken for all three levels of NZC NCEA for 2026. This pdf document contains the updated Achievement Standards for **Agricultural and Horticultural Science Level 2**. In January 2026 the NCEA website will be updated with these changes for Level 1, and the pdf version will be removed as it will no longer be necessary. For Levels 2 and 3, NZQA will update their website with the registered standards in December. For external assessment specifications, refer to the NZQA website.

## Subject: Agricultural and Horticultural Science Level 2

Standard	What's changed?
AS 2.5 91293	Explanatory Note 3: <ul style="list-style-type: none"><li>Reference to 'induction' as a reproductive technique removed, in line with current farming practice recommendations.</li></ul>

## Achievement Standard

<b>Subject Reference</b>	Agricultural and Horticultural Science 2.5			
<b>Title</b>	Demonstrate understanding of livestock reproductive techniques in commercial production in New Zealand			
<b>Level</b>	2	<b>Credits</b>	4	<b>Assessment</b> Internal
<b>Subfield</b>	Science			
<b>Domain</b>	Agricultural and Horticultural Science			
<b>Status</b>	Registered	<b>Status date</b>	September 2025	
<b>Planned review date</b>	31 December 2028	<b>Date version published</b>	December 2025	

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

### 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.

D] *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
  - 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.

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### 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