

## Achievement Standard

<b>Subject Reference</b>	Agricultural and Horticultural Science 1.2		
<b>Title</b>	Demonstrate practical skills used in agricultural or horticultural production		
<b>Level</b>	1	<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>	17 December 2010
<b>Planned review date</b>	31 December 2014	<b>Date version published</b>	17 December 2010

This achievement standard involves the demonstration of practical skills associated with agricultural or horticultural production.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Demonstrate practical skills used in agricultural or horticultural production.</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate practical skills used in agricultural or horticultural production with control.</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate practical skills used in agricultural or horticultural production proficiently.</li> </ul>

### Explanatory Notes

- This achievement standard is derived from *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007, and based on the outcomes in the *Teaching and Learning Guide for Agricultural and Horticultural Science*, Ministry of Education, 2010 at <http://seniorsecondary.tki.org.nz/>.
- Where animals are involved, *practical skills* must comply with the Animal Welfare Act 1999, as outlined in *Caring for Animals: a Guide for Teachers, Early Childhood Educators, and Students*, Learning Media, Ministry of Education, 1999.
- Demonstrate practical skills* involves:
  - selection and use of appropriate equipment, materials and conditions when demonstrating the skill
  - carrying out skills in a safe manner
  - achieving the required outcome.

*Demonstrate practical skills with control* involves employment of a correct sequence of procedures that leads to effective use of equipment and materials.

*Demonstrate practical skills proficiently* involves fluent employment of a correct sequence of procedures that leads to effective and economical use of equipment and materials.

- 4 *Practical skills* could include but are not limited to: taking cuttings, pruning, cultivation, tool maintenance, tailing lambs, drenching sheep, moving a temporary electric fence, spraying weeds using a knapsack unit. Practical skills include aspects of a specific process eg the skill of pruning includes selection of equipment, cutting, and cleaning up.
  - 5 Appropriate equipment could include but is not limited to tools such as: spade, fork, trowel, secateurs, mower, shearing handpiece, elastrators, ear marker, wire strainer, ear muffs, visors.
  - 6 Appropriate materials could include but are not limited to: soil, potting mix, containers, sprays, seed, plants, fertilisers, animal remedies.
  - 7 Appropriate conditions could include but are not limited to those affecting:
    - soils – texture, structure, topography
    - plants – nutrient deficiency, pest infection, stage of maturity
    - animals – pregnancy, body condition, disease.
  - 8 Fluent refers to the carrying out of a skill in a non-hesitant, confident manner and in a time-frame relevant to the skill.
  - 9 Conditions of Assessment related to this achievement standard can be found at [www.tki.org.nz/e/community/ncea/conditions-assessment.php](http://www.tki.org.nz/e/community/ncea/conditions-assessment.php).
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## Quality Assurance

- 1 Providers and Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against achievement standards.
- 2 Accredited providers and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Accreditation and Moderation Action Plan (AMAP) reference

0233