

## Achievement Standard

<b>Subject Reference</b>	Agricultural and Horticultural Science 2.3		
<b>Title</b>	Demonstrate understanding of advanced plant propagation techniques used for 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>	17 November 2011
<b>Planned review date</b>	31 December 2020	<b>Date version published</b>	20 November 2014

This achievement standard involves demonstrating understanding of advanced plant propagation techniques used for commercial production in New Zealand.

Note: Candidates cannot use credit for both this achievement standard and Horticulture ITO standard 20556 towards a national qualification including a National Certificate of Educational Achievement.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Demonstrate understanding of advanced plant propagation techniques used for commercial production in New Zealand.</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate in-depth understanding of advanced plant propagation techniques used for commercial production in New Zealand.</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate comprehensive understanding of advanced plant propagation techniques used for commercial production in New Zealand.</li> </ul>

### Explanatory Notes

- 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>.
- Demonstrate understanding* involves describing the steps taken when performing advanced plant propagation techniques.

*Demonstrate in-depth understanding* involves explanation of how advanced plant propagation techniques, or steps within techniques, provide conditions that are

important for successful propagation. Reference to related plant structural features and functions, and/or to horticultural science concepts is required.

*Demonstrate comprehensive understanding* involves evaluation of advanced plant propagation techniques. This will involve comparing and/or contrasting or justifying the use of these techniques or steps within techniques in terms of quality, quantity, genetic potential, timing, and the economics of production.

- 3 *Advanced plant propagation techniques* are those associated with sexual propagation and asexual propagation through grafting, budding, and hormone treated cuttings or tissue culture.
- 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 AS91293 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