

# NCEA Agricultural and Horticultural Science Remote Learning and Assessment

NZQA has considered the impacts of the Covid-19 virus on teaching, learning and assessment programmes for NCEA Agricultural and Horticultural Science. This document includes guidance for both internal and external Agricultural and Horticultural Achievement Standards.



## General Guidance

Students may need access to a camera/phone and internet to upload video evidence to a platform for assessors to access for some standards. This may pose issues around access and equity for some students, which you will need to consider in your programme planning.

## Agricultural and Horticultural Science Matrix

*KEY: A colour-coding system to categorise standards according to the advice in this document.*

<b>Green</b>	These standards are suitable for remote teaching, learning and assessment.
<b>Blue</b>	Teachers can facilitate assessment against these standards by remote learning with guidance (refer to General Guidance above).
<b>Red</b>	These standards require a collaborative process or interaction with others, are not suitable for remote teaching, learning and assessment.

Domain	Level 1	Level 2	Level 3
Agricultural and Horticultural Science	<p><b>AS90918</b> <span style="float: right;"><b>1.1</b></span>  <b>Carry out a practical agricultural or horticultural investigation</b></p> <p>It is suggested that this standard be assessed once students have safe access to suitable materials, equipment and tools.</p> <p style="text-align: right;">4 credits <span style="float: right;">Internal</span></p>	<p><b>AS91289</b> <span style="float: right;"><b>2.1</b></span>  <b>Carry out an extended practical agricultural or horticultural investigation</b></p> <p>It is suggested that this standard be assessed once students have safe access to suitable materials, equipment and tools.</p> <p style="text-align: right;">4 credits <span style="float: right;">Internal</span></p>	<p><b>AS91528</b> <span style="float: right;"><b>3.1</b></span>  <b>Carry out an investigation into an aspect of a New Zealand primary product or its production</b></p> <p>It is suggested that this standard be assessed once students have safe access to suitable materials, equipment and tools</p> <p style="text-align: right;">4 credits <span style="float: right;">Internal</span></p>

Domain	Level 1	Level 2	Level 3
Agricultural and Horticultural Science	<p><b>AS91057</b> <span style="float: right;"><b>1.2</b></span>  <b>Demonstrate practical skills used in agricultural or horticultural production</b></p> <p>It is suggested that this standard be assessed once students have safe access to suitable materials, equipment and tools</p> <p>4 credits <span style="float: right;">Internal</span></p>	<p><b>AS91290</b> <span style="float: right;"><b>2.2</b></span>  <b>Demonstrate understanding of techniques used to modify physical factors of the environment for NZ plant production</b></p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p>4 credits <span style="float: right;">External</span></p>	<p><b>AS91529</b> <span style="float: right;"><b>3.2</b></span>  <b>Research and report on the impact of factors on the profitability of a New Zealand primary product</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p>6 credits <span style="float: right;">Internal</span></p>
Agricultural and Horticultural Science	<p><b>AS90919</b> <span style="float: right;"><b>1.3</b></span>  <b>Demonstrate knowledge of soil management practices</b></p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p>4 credits <span style="float: right;">External</span></p>	<p><b>AS91291</b> <span style="float: right;"><b>2.3</b></span>  <b>Demonstrate understanding of advanced plant propagation techniques used for commercial production in New Zealand</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p>4 credits <span style="float: right;">Internal</span></p>	<p><b>AS91530</b> <span style="float: right;"><b>3.3</b></span>  <b>Demonstrate understanding of how market forces affect supply of and demand for New Zealand primary products</b></p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p>5 credits <span style="float: right;">External</span></p>

Domain	Level 1	Level 2	Level 3
Agricultural and Horticultural Science	<p><b>AS90920</b> <span style="float: right;"><b>1.4</b></span>  <b>Demonstrate knowledge of the geographic distribution of agricultural and horticultural primary production in New Zealand</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p style="text-align: right;">3 credits <span style="margin-left: 100px;">Internal</span></p>	<p><b>AS91292</b> <span style="float: right;"><b>2.4</b></span>  <b>Demonstrate understanding of how management practices influence plant growth and development in NZ commercial production</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p style="text-align: right;">4 credits <span style="margin-left: 100px;">Internal</span></p>	<p><b>AS91531</b> <span style="float: right;"><b>3.4</b></span>  <b>Demonstrate understanding of how the production process meets the market requirements for a New Zealand primary product(s)</b></p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p style="text-align: right;">4 credits <span style="margin-left: 100px;">External</span></p>
Agricultural and Horticultural Science	<p><b>AS90160</b> <span style="float: right;"><b>1.5</b></span>  <b>Demonstrate knowledge of the impact on the environment of primary production management practices</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p style="text-align: right;">3 credits <span style="margin-left: 100px;">Internal</span></p>	<p><b>AS91293</b> <span style="float: right;"><b>2.5</b></span>  <b>Demonstrate understanding of livestock reproductive techniques in commercial production in New Zealand</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p style="text-align: right;">4 credits <span style="margin-left: 100px;">Internal</span></p>	<p><b>AS91532</b> <span style="float: right;"><b>3.5</b></span>  <b>Analyse a New Zealand primary production environmental issue</b></p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p style="text-align: right;">5 credits <span style="margin-left: 100px;">External</span></p>

Domain	Level 1	Level 2	Level 3
Agricultural and Horticultural Science	<p><b>AS90921</b> <span style="float: right;"><b>1.6</b></span>  <b>Demonstrate knowledge of livestock management practices</b></p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p>5 credits <span style="float: right;">External</span></p>	<p><b>AS91294</b> <span style="float: right;"><b>2.6</b></span>  <b>Demonstrate understanding of how NZ commercial management practices influence livestock growth and development</b></p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p>4 credits <span style="float: right;">External</span></p>	
Agricultural and Horticultural Science	<p><b>AS90160</b> <span style="float: right;"><b>1.7</b></span>  <b>Demonstrate knowledge of pasture/crop management practices</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p>4 credits <span style="float: right;">Internal</span></p>	<p><b>AS91293</b> <span style="float: right;"><b>2.7</b></span>  <b>Demonstrate understanding of interactions between livestock behaviour and NZ commercial management practices</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p>4 credits <span style="float: right;">Internal</span></p>	

Domain	Level 1	Level 2	Level 3
Agricultural and Horticultural Science	<p><b>AS90922</b> <span style="float: right;"><b>1.8</b></span>  <b>Design a landscape plan that reflects user requirements</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p style="text-align: right;">3 credits <span style="margin-left: 100px;">Internal</span></p>	<p><b>AS91296</b> <span style="float: right;"><b>2.8</b></span>  <b>Produce a landscape plan.</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p style="text-align: right;">4 credits <span style="margin-left: 100px;">Internal</span></p>	
Agricultural and Horticultural Science	<p><b>AS90923</b> <span style="float: right;"><b>1.9</b></span>  <b>Demonstrate knowledge of basic plant propagation techniques</b></p> <p>Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p style="text-align: right;">4 credits <span style="margin-left: 100px;">Internal</span></p>	<p><b>AS91297</b> <span style="float: right;"><b>2.9</b></span>  <b>Demonstrate understanding of land use for primary production in New Zealand</b></p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p style="text-align: right;">4 credits <span style="margin-left: 100px;">External</span></p>	

Domain	Level 1	Level 2	Level 3
Agricultural and Horticultural Science	<p data-bbox="280 193 880 331"><b>AS90924</b> <span style="float: right;"><b>1.6</b></span>  <b>Demonstrate knowledge of horticultural plant management practices and related plant physiology</b></p> <p data-bbox="280 363 857 502">Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p data-bbox="280 646 880 671">5 credits <span style="float: right;">External</span></p>	<p data-bbox="898 193 1498 331"><b>AS91298</b> <span style="float: right;"><b>2.6</b></span>  <b>Report on the environmental impact of the production of a locally produced primary product</b></p> <p data-bbox="898 363 1489 459">Suitable for remote learning and assessment on digital platforms such as video conferencing/online documents.</p> <p data-bbox="898 646 1498 671">4 credits <span style="float: right;">Internal</span></p>	