

## Assessment Specifications

# Level 1 Agricultural and Horticultural Science 2024

Published in March 2024

## General information

**Domain:** Science  
**Standards:** 91930, 91931

[Agricultural and Horticultural Science subject page](#)

[National secondary examinations timetable](#)

## Specific information for individual achievement standards

<b>Standard:</b>	91931
<b>Domain:</b>	Science
<b>Title:</b>	Demonstrate understanding of environmental sustainability in primary production management practices
<b>Version:</b>	3
<b>Number of credits:</b>	4
<b>Assessment event scheduling:</b>	School scheduled within NZQA defined period
<b>Assessment timing:</b>	Over-time submission
<b>Assessment method:</b>	Over-time assessment task
<b>Assessment format:</b>	Questions and answers
<b>Assessment medium:</b>	Online
<b>Permitted file types:</b>	Document file (PDF, DOC, DOCX)
<b>Date for pre-release of material:</b>	The assessment guidance and activity will be made available in Term 3, Week 1
<b>Final date of submission:</b>	30 October 2024

Candidates will reference a primary production system and management practices of their choice within a given context available in an assessment activity in Term 3. Candidates will demonstrate their understanding of sustainability considerations.

The activity will focus on the impact on one environmental context chosen from:

- soil
- water
- living things
- atmosphere.

Candidates should also demonstrate their understanding of a te ao Māori concept in their understanding of sustainability considerations.

### Conditions of assessment

There is no required time allowance, but a minimum of three hours is suggested for candidates to produce their report individually.

The use of chatbots, generative AI, paraphrasing tools, or other tools that can automatically generate content is not permitted and material generated by these tools should not be submitted as part of the candidate's work.

### Authenticity

Teachers must closely supervise the process of evidence collection to ensure that candidates:

- do not copy from another person or source without appropriate acknowledgement
- do not receive guidance, scaffolding, instruction, assistance, or assessment conditions beyond what is specified as permissible in these Assessment Specifications.

Where a teacher cannot verify that the assessment submitted is the authentic work of the candidate, they must notify NZQA of a possible Candidate Breach of External Assessment.

### Special Assessment Conditions

Refer to the NZQA website for further information.

[Aromatawai Special Assessment Conditions](#)

### Submission requirements

Evidence may be submitted as:

- a written report
- a written report with visual elements.

The written report may be submitted as a document file (PDF, DOC, DOCX). Candidates should submit only one file for their final submission and it should not be more than 200MB.

Candidates should refer to [Further Guidance for Submission Responses](#) for further information.

Refer also to other resources on the subject page of the NZQA website.

Further submission instructions and authenticity requirements will be provided for schools in Term 3, Week 1.

<b>Standard:</b>	91930
<b>Domain:</b>	Science
<b>Title:</b>	Demonstrate understanding of how soil properties are managed in a primary production system
<b>Version:</b>	3
<b>Number of credits:</b>	5
<b>Assessment timing:</b>	Point-in-time end of year
<b>Assessment method:</b>	Examination
<b>Assessment medium:</b>	Online

Candidates will be required to answer three questions related to their understanding of soil properties in a primary production system. In their response, candidates will be required to discuss how at least two specified soil properties are managed. Candidate responses will draw on their knowledge of familiar primary production contexts. Candidates should refer to at least two soil properties in the examination. These may be selected from the list below:

- composition and structure
- drainage and aeration
- temperature
- nutrient retention
- soil pH
- decomposition
- disease status.

As part of the evidence provided, candidates should include in their response an awareness of an appropriate te ao Māori concept, in the context of soil properties that are managed in a primary production system.

Further information about digital external assessment can be found on the NZQA website.

[Digital external assessment](#)