

# **ASSESSMENT GUIDELINES**

## **Unit 22191**

Demonstrate knowledge of factors which  
influence plant growth

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Level 2, Credit 5, Version 1

# Demonstrate knowledge of factors which influence plant growth

Unit standard 22191  
Level 2, Credit 5, Version 1

## Level of performance required for this unit standard

This is a level 2 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under general supervision, as directed; with some responsibility for the standard of the outcome achieved.
- To complete tasks that are established and familiar, with a moderate range of skill and knowledge.
- To apply basic operational knowledge, use readily available information and known solutions to solve familiar problems.

## Workplace assessment:

For guidelines on Workplace Assessment, please refer to the NZHITO Workplace Assessors Manual, and for further information, please contact: NZHITO, P O Box 8638, Christchurch. Ph 03 9644 735, fax 03 9644 737, website [www.hortito.org.nz](http://www.hortito.org.nz)

## Special notes:

None.

**Unit 22191: Demonstrate knowledge of factors which influence plant growth  
(Apprentice copy)**

<b>ELEMENT</b>	<b>Competent</b>	<b>Range of evidence an assessor should consider</b>
<b>Element 1</b> Identify environmental factors, which influence vegetative and fruit growth.	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ Identify climatic factors, and explain how they affect vegetative and fruit growth. Range: temperature, light, rainfall, wind, humidity.</li> <li>▪ Identify physical factors, and explain how they affect plant growth. Range: soil type, topography, aspect, frost.</li> <li>▪ Describe how environmental techniques can be manipulated to maximize plant growth.</li> </ul>
<b>Element 2</b> Identify other factors, which influence vegetative and fruit growth.	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ Discuss plant breeding in terms of how it can influence optimum plant growth.</li> <li>▪ Discuss crop management techniques in terms of showing how they can maximize fruit and vegetative quality. Range: pest and disease control, pruning, thinning, plant support structures, fertilizing and irrigation.</li> </ul>
<b>Element 3</b> Demonstrate knowledge of a specific crop, which is grown using techniques to improve plant production and crop quality.	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ With regards to a specific crop explain environmental and other factors that help to achieve maximum vegetative and fruit growth.</li> <li>▪ Explain techniques that enhance a specific crop to achieve maximum plant growth.</li> </ul>

\_\_\_\_\_ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 22191, version 1

**Signed (Assessor):** \_\_\_\_\_

WPA Registration Number: \_\_\_\_\_ Date: \_\_\_\_\_

**Unit 22191: Demonstrate knowledge of factors which influence plant growth  
(Assessor copy)**

<b>ELEMENT</b>	<b>Competent</b>	<b>Range of evidence an assessor should consider</b>
<b>Element 1</b> Identify environmental factors, which influence vegetative and fruit growth.	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ Identify climatic factors, and explain how they affect vegetative and fruit growth. Range: temperature, light, rainfall, wind, humidity.</li> <li>▪ Identify physical factors, and explain how they affect plant growth. Range: soil type, topography, aspect, frost.</li> <li>▪ Describe how environmental techniques can be manipulated to maximize plant growth.</li> </ul>
<b>Element 2</b> Identify other factors, which influence vegetative and fruit growth.	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ Discuss plant breeding in terms of how it can influence optimum plant growth.</li> <li>▪ Discuss crop management techniques in terms of showing how they can maximize fruit and vegetative quality. Range: pest and disease control, pruning, thinning, plant support structures, fertilizing and irrigation.</li> </ul>
<b>Element 3</b> Demonstrate knowledge of a specific crop, which is grown using techniques to improve plant production and crop quality.	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ With regards to a specific crop explain environmental and other factors that help to achieve maximum vegetative and fruit growth.</li> <li>▪ Explain techniques that enhance a specific crop to achieve maximum plant growth.</li> </ul>

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Please send this page to your NZHITO Regional Manager, who will forward it to National Office to register the credits on your NZQA Record of Learning.

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*(Name of Apprentice)*

**is Competent in Unit Standard 22191. (version 1)**

**Signed (Assessor):**

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WPA Registration Number: \_\_\_\_\_

Date: \_\_\_\_\_