

## Assessor Marking Guide

<b>Programme Name</b>	<b>New Zealand Certificate in Horticulture (General) Level 3</b>	
<b>Assessment Number</b>	<b>02A2</b>	
<b>Assessment Title</b>	<b>Assessment 2: Written Questions</b>	
<b>Course Number</b>	<b>Course 2</b>	<b>Version 1 Level 3 Credit 4</b>
<b>Course Title</b>	<b>Horticulture Basics: Garden Maintenance and Composting</b>	

*Internal feedback related to design of assessment tools should be submitted via the online Continuous Improvement Form (eCIF).*

### Course Assessment Summary

<b>Course</b>	<b>Learning Outcome</b>	<b>Assessment</b>
<b>Course 2:</b> Horticulture Basics: Garden Maintenance and Composting	LO 2.2	02A1
	LO 2.1	02A2

**This assessment leads to the following graduate profile and learning outcomes.**

<b>NZQA GPO</b>	<b>Learning Outcome</b>	<b>Assessment Standard</b>	<b>Task</b>
GPO1  Apply knowledge of plant and soils science to the identification, selection and growing of plants.	LO2.1  Apply knowledge of basic garden care and maintenance to support plant growth.  <i>Contributes 2 GPO credits</i>	Complete short answer questions and/or scenarios to apply knowledge of basic composting and garden care/maintenance for home/community garden. To include: <ul style="list-style-type: none"> <li>• Purpose and benefit of composting to gardener.</li> <li>• How composting works (basic)</li> <li>• Types of compost systems for home/community garden. Advantages and disadvantage.</li> <li>• Identify and explain what plants need to be able to grow</li> <li>• Explain care/ maintenance what to do/why at each stage of plant life cycle (e.g., a vegetable/fruit at 4 stages)</li> </ul>	<b>All tasks</b>

### NZQF Level 3 Descriptors

<b>Knowledge</b>	<ul style="list-style-type: none"> <li>• Some operational and theoretical knowledge in a field of work or study</li> </ul>
<b>Skills</b>	<ul style="list-style-type: none"> <li>• Select and apply from a range of known solutions to familiar problems.</li> <li>• Apply a range of standard processes relevant to the field of work or study</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>• Limited supervision.</li> <li>• Requiring major responsibility for own learning and performance.</li> <li>• Adapting own behaviour when interacting with others.</li> <li>• Contributing to group performance.</li> </ul>

## ADMINISTRATION

### Assessors are required to provide feedback to students:

- Constructive feedback to the student must be documented within assessment evidence. Including where resubmission is required.
- Notes on demonstrated performance and application of skills, knowledge, attributes; future improvement/development planning e.g. task management, study skills; relationship to other programme content and use in career.

### Student evidence must be assessed against all specified criteria to meet learning outcomes.

- Any adaption in assessment methods must be documented and attached to the assessment by the assessor (where deemed necessary to be fair and transparent in relation to student's specified needs).
- Assessment Pack Cover should be dated and signed by assessor when the student has received the final result.
- Assessment opportunities must be indicated accurately.  
Where any practical criteria are not achieved, an additional practical sheet must be used for reassessment for all practical outcomes and attached to this assessment pack. Refer to Assessment opportunities policy for additional detail.
- The student must sign the post-assessment agreement after receiving final result.
- It is the Assessors responsibility to ensure all relevant documentation is included in the assessment prior to reporting and filing.
- Samples of assessments will be forwarded to internal and/or external parties for moderation as required.
- This is an open-book assessment. This means you can research your answers to the questions by reading the course materials or searching online, but you cannot ask someone else for the answers.

Where appropriate **sample answers and or exemplars** may be included: Sample answers are a guide only providing an example of the sufficiency of quantitative and qualitative evidence the assessor could expect to see.

Question	Achievement Criteria / Judgement
<p>1. Which of the statements below describes the process of composting? Select all that apply.</p>	<p>Learner's response must indicate only:</p> <p>Decomposition of organic matter mainly by soil micro-organisms</p> <p>Worms can help decompose the organic matter</p> <p>Composting can be done in a mound or heap, or timber-lined box.</p>
<p>2. Select from the list below the benefits of making compost at home. Select all that apply.</p>	<p>Learner's response <u>must indicate only</u>:</p> <ul style="list-style-type: none"> <li>● It is environmentally friendly</li> <li>● It is a good way to dispose of food scraps and crop residues</li> <li>● It creates a free beneficial soil amendment.</li> </ul>
<p>3. Select two reasons from the list below for adding compost to the garden.</p>	<p>Learner's response <u>must indicate only</u>:</p> <ul style="list-style-type: none"> <li>● Improves soil structure and fertility</li> <li>● Improves water-retention</li> </ul>
<p>4. Which of the following is a sign that compost is becoming anaerobic (has no air)? (select all that apply)</p>	<p>Learner's response <u>must indicate only</u>:</p> <ul style="list-style-type: none"> <li>● It gives off a bad smell</li> </ul>
<p>5. What actions should you take if your compost starts giving off a bad smell? (select all that apply)</p>	<p>Learner's response <u>must indicate only</u>:</p> <ul style="list-style-type: none"> <li>● Turn the compost</li> <li>● Add more "browns"</li> </ul>
<p>6. If the answers you selected in the previous question don't work, you'll need to try chuck it out and start again, or you can try a few more things. Select all of the actions you could try to fix the problem from the list below.</p>	<p>Learner's response must indicate only:</p> <p>Reduce the size of the compost mound by separating it into two or more bins or mounds.</p> <p>Add worm castings</p>

7. Compost is ready when it becomes:	<p>Learner's response must indicate only:</p> <ul style="list-style-type: none"> <li>• earthy and dark brown and shows no traces of the original materials</li> </ul>
8. What are the benefits of using a compost mound? Select all that apply.	<p>Learner's response must indicate only:</p> <ul style="list-style-type: none"> <li>• quick and easy to get started</li> <li>• inexpensive</li> </ul>
9. Select all of the benefits from the list below of composting in plastic or metal bins.	<p>Learner's response must indicate only:</p> <ul style="list-style-type: none"> <li>• they are tidy</li> <li>• they are relatively inexpensive</li> <li>• they are efficient</li> </ul>
10. Select all of the benefits of using a compost tumbler / rotating bin for your composting.	<p>Learner's response must indicate only:</p> <ul style="list-style-type: none"> <li>• the bin sits off the ground so access is easier</li> <li>• the rotation provides good aeration, which speeds up the composting process</li> </ul>
11. Of the main things plants need to grow, which one is responsible for absorbing nutrients through osmosis?	<p>Learner's response must be only:</p> <ul style="list-style-type: none"> <li>• Water</li> </ul>
12. Of the main things plants need to grow, which are responsible for photosynthesis? Select all that apply.	<p>Soil is incorrect</p>
13. Of the main things plants need to grow, which is responsible for cellular respiration?	<p>Air is correct</p>
14. Of the main things plants need to grow, which is responsible for transpirational pull?	<p>Water is correct</p>
15. What is the primary function of nutrients for plant health? Select all that apply.	<ul style="list-style-type: none"> <li>a. To support various plant processes</li> <li>b. To help protect the plant from disease by keeping it healthy</li> </ul>

16. Which of the following tasks do you need to carry out to help seeds germinate? (select all that apply)	<p>Learner's response must include both:</p> <ul style="list-style-type: none"> <li>• Keep the growing medium moist</li> <li>• Keep the seed tray somewhere warm</li> </ul>
17. Which of the following tasks do you need to carry out while seedlings develop into mature plants? (select all that apply)	<p>Learner's response must include all of:</p> <ul style="list-style-type: none"> <li>• Keep the growing medium moist</li> <li>• Transplant when the seedlings outgrow their seed tray</li> <li>• Watch them closely for signs of pests or diseases</li> </ul>
18. Which of the following tasks do you need to carry out while your plants are fruiting? (select all that apply)	<p>Learner's response must include all of:</p> <ul style="list-style-type: none"> <li>• Watch them closely for signs of pests or diseases</li> <li>• Watch closely for signs of water stress or overwatering</li> <li>• Harvest fruit when it's ripe</li> </ul>
19. For most crops, once you've picked them, which of the following post-harvest tasks need to be carried out? (select all that apply)	<p>Learner's response <u>must include all of</u>:</p> <ul style="list-style-type: none"> <li>• Cooling</li> <li>• Cleaning</li> <li>• Sorting, packing and storing</li> </ul> <p>Learner's response <u>must not include</u>:</p> <ul style="list-style-type: none"> <li>• Turning compost</li> </ul>
20. Which of the following tasks do you need to carry out when fruit trees are dormant? (select all that apply)	<p>Learner's response <u>must include</u>:</p> <ul style="list-style-type: none"> <li>• Watch them closely for signs of pests or diseases</li> <li>• Compost fallen leaves and spoilt fruit</li> <li>• Spray them with a Spray Program that includes copper fungicide.</li> </ul>
21. The most common shape we prune plum trees into is known as:	<p>Learner's response <u>must include</u>:</p> <ul style="list-style-type: none"> <li>• A vase</li> </ul>
22. Select the two most common	<p>Learner's response <u>must include</u>:</p>

<p>shapes we prune pear trees into:</p>	<ul style="list-style-type: none"> <li>● A central leader</li> <li>● A pyramid</li> </ul>
<p>23. If a branch is slightly too large for you to cut it with secateurs which of the following could you use? Select all that apply.</p>	<p>Learner's response <u>must include</u>:</p> <ul style="list-style-type: none"> <li>● Loppers</li> <li>● A pruning saw</li> </ul>
<p>24. Which of the following are signs of overwatering? (select all that apply)</p>	<p>Learner's response <u>must include both</u>:</p> <ul style="list-style-type: none"> <li>● Both young and old leaves become yellow</li> <li>● Water-soaked spots may appear on stems and leaves</li> </ul> <p>Learner's response <u>must not include any of</u>:</p> <ul style="list-style-type: none"> <li>● Leaves change from being glossy to dull</li> <li>● Plants wilt or stops growing</li> </ul>
<p>25. Which of the following are signs of water stress? (select all that apply)</p>	<p>Learner's response <u>must include both</u>:</p> <ul style="list-style-type: none"> <li>● Leaves change from being glossy to dull</li> <li>● Plants wilt or stops growing</li> </ul> <p>Learner's response <u>must not include any of</u>:</p> <ul style="list-style-type: none"> <li>● Both young and old leaves become yellow</li> <li>● Water-soaked spots may appear on stems and leaves</li> </ul>
<p>26. Which of the following activities can help reduce the need for watering? (select all that apply)</p>	<p>Learner's response <u>must include all of</u>:</p> <ul style="list-style-type: none"> <li>● Applying compost or mulch to the growing soil</li> <li>● Watering deeply but infrequently</li> <li>● Choosing plants that are drought-tolerant*</li> </ul> <p>Learner's response <u>must not include</u>:</p> <ul style="list-style-type: none"> <li>● Adding plenty of sand to your soil</li> </ul>