

## Modification history

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

AHCGRI301	Maintain roof gardens, vertical gardens and green facades
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to carry out maintenance work on green infrastructure.</p> <p>The unit applies to individuals who carry out maintenance on roof gardens, vertical gardens and green facades.</p> <p>This unit of competency is suitable for individuals using their own judgment to deal with predictable and unpredictable problems and to decide on solutions to a range of complex problems during the maintenance process.</p> <p>Licensing, legislative or certification requirements may apply to this unit in some jurisdictions, depending on the location of work and/or plant and equipment used. Users are advised to check with the relevant regulatory authorities.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Green Infrastructure (GRI)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan maintenance of green infrastructure	1.1 Read maintenance plan and records, determine maintenance objectives and schedule appropriate work 1.2 Identify workplace processes, practices and procedures applicable to maintenance work 1.3 Check sensors and review data for anomalies, if applicable 1.4 Identify hazards and implement controls following workplace safety and environmental requirements, including planning safe access to maintenance areas for persons, materials and equipment 1.5 Determine job priorities and sequence job tasks in consultation with others on site 1.6 Identify, calculate and order materials and products for the task
2. Carry out maintenance of green infrastructure	2.1 Select, fit and use personal protective equipment (PPE) appropriate for the task 2.2 Select and check plant, equipment and tools for serviceability, and rectify and report faults 2.3 Clear drainage areas and outlets, and inspect and report on roof or building surface penetrations or pooling water 2.4 Prune or remove unwanted vegetation to encourage growth and minimise the risk of fire and other hazards 2.5 Identify pests and diseases, and apply appropriate method of eliminating or controlling according to workplace and environmental requirements 2.6 Evaluate condition of soil or growing media, top up and add ameliorants or additives, if required 2.7 Test and adjust irrigation system, if required
3. Record maintenance activities	3.1 Record plant health, burrows and nests, pest infestation and droppings if applicable 3.2 Record condition and volume of soil or growing media 3.3 Record maintenance activity undertaken, schedule next required maintenance activity, and update maintenance plan

<b>Elements</b>	<b>Performance Criteria</b>
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Clean up	4.1 Clear work area and dispose of, reuse or recycle materials according to workplace and environmental requirements 4.2 Clean tools and equipment, check for serviceability, and report damage or faults 4.3 Store and secure tools and equipment according to workplace procedures

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<b>Foundation Skills</b>	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
<b>Skill</b>	<b>Description</b>
Oral communication	<ul style="list-style-type: none"> <li>Interact and collaborate effectively with others, including using communication tools and devices</li> </ul>
Reading	<ul style="list-style-type: none"> <li>Interpret product information and manufacturer specifications</li> <li>Research and climate and weather conditions</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Complete maintenance documentation accurately and legibly</li> <li>Record information using digital technologies</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
AHCGRI301 Maintain roof gardens, vertical gardens and green facades	Not applicable	The unit has been created to address an emerging skill or task required by industry	Newly created

<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</a>
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<b>TITLE</b>	<b>Assessment requirements for AHCGRI301 Maintain roof gardens, vertical gardens and green facades</b>
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**Performance Evidence**

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has maintained, on at least three separate occasions for each, and over a period of time consistent with the maintenance schedule:

- one roof garden
- one vertical garden, and
- one green facade.

In completing the above, there must also be evidence that the individual has:

- conducted scheduled interval visual inspection of the infrastructure, systems and plants
- evaluated soil or growing media condition and adjusted as required
- disposed of vegetation and waste according to workplace and environmental requirements.

**Knowledge Evidence**

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- maintenance requirements of green infrastructure
- site analysis:
  - climatic factors – wind, temperature, solar radiation and rainfall
  - irrigation
  - drainage
  - infrastructure decay or damage
- terminology of green infrastructure maintenance
- plant maintenance and cultural requirements of plants used for green infrastructure:
  - feeding and watering
  - weeding and trimming
  - pest and diseases
- soil or growing media maintenance including ameliorants and additives
- features, benefits and characteristics of green infrastructure
- current and relevant work health and safety and environmental requirements relevant to green infrastructure maintenance work
- organisational policies and procedures relevant to green infrastructure maintenance work
- sensor devices and equipment, data collection and analysis
- functional and operational features of plant, equipment, hand and power tools, including certification requirements for operation, used for green infrastructure maintenance
- causes and controls of fire hazards in green infrastructure.

**Assessment Conditions**

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a green infrastructure workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - tools, equipment and materials appropriate for carrying out green infrastructure maintenance work
  - personal protective equipment
- specifications:
  - specific organisational policies, procedures and processes including work health and safety and environmental procedures relevant to maintenance work
  - green infrastructure maintenance schedule for a minimum of two months
- relationships:
  - clients or team members to discuss green infrastructure maintenance requirements.

<b>Assessment Conditions</b>
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Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.
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