



**Australian Government**

# **AHCGRI402 Construct vertical gardens and green facades**

**Release: 1**

# AHCGR1402 Construct vertical gardens and green facades

## Modification History

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

## Application

This unit of competency describes the skills and knowledge required to construct designed vertical gardens and green facades, to comply with regulatory authorities' building regulations, standards and codes, and meet design plans and specifications.

The unit applies to individuals who build or install vertical gardens and green facades on new or existing residential or commercial buildings in consultation with architects, engineers and other building and/or landscape and horticultural professionals.

This unit of competency is suitable for individuals dealing with predictable and unpredictable problems and deciding on solutions to a range of complex problems during the building or installation process through research, analysis and consultation.

Vertical garden and green facade installation or construction must meet all regulatory requirements of national, state, territory and local government authorities and building regulations, standards and codes.

Licensing, legislative or certification requirements may apply to this unit in some jurisdictions depending on the location of the work and/or plant and equipment used. Users are advised to check with the relevant regulatory authorities.

## Pre-requisite Unit

Nil

## Unit Sector

Green Infrastructure (GRI)

## Elements and Performance Criteria

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>

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1. Plan and prepare	<p>1.1 Interpret vertical garden and green facade design plans and specifications, check permits and identify and resolve any discrepancies with designer and/or associated specialists if applicable</p> <p>1.2 Complete job safety and environmental analysis (JSEA) or Safe Work Method Statement (SWMS), identify potential hazards and apply control measures</p> <p>1.3 Determine job priorities, and sequence job tasks in consultation with others on site</p> <p>1.4 Calculate material and component quantities and check material availability with suppliers</p> <p>1.5 Schedule delivery and discuss site access and method of locating material onsite with appropriate persons</p> <p>1.6 Select plant, equipment and tools, check for serviceability and rectify and report any faults, and confirm required operator certifications, if applicable</p> <p>1.7 Select, correctly fit and use personal protective equipment (PPE)</p> <p>1.8 Check delivered materials and components for conformity, and report any discrepancies or damage to appropriate person</p>
2. Construct vertical garden	<p>2.1 Set out and mark position, levels and fixing points appropriate for the selected vertical garden configuration</p> <p>2.2 Confirm waterproofing installation to the specified area by specialist waterproofer using approved materials and methods has been inspected and certified</p> <p>2.3 Install irrigation and drip tray system, and check for leaks</p> <p>2.4 Install lighting and/or air flow equipment according to specifications</p> <p>2.5 Fix vertical garden panels according to manufacturers' specifications</p> <p>2.6 Install and finish growing media to specified levels</p> <p>2.7 Plant specified vegetation to meet design patterns according to designer and/or supplier establishment information</p>
3. Construct green facade	<p>3.1 Assemble and fix facade framework in compliance with building codes and standards, and without damage to existing structure</p> <p>3.2 Install garden bed or containers to design specifications</p>

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	3.3 Install, fix and test irrigation and drainage systems 3.4 Select and install growing media to specified depth, consolidate and finish height 3.5 Plant or install specified plants following designer and/or supplier establishment information
4. Complete vertical garden and green facade construction	4.1 Clear the work area by disposing of, reusing or recycling materials 4.2 Clean tools and equipment and check for serviceability and report damage or defects to appropriate person 4.3 Store tools and equipment according to workplace and environmental requirements

## Foundation Skills

*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.*

<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Access and extract information from plans, specifications and regulatory information</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Use clear language and industry terminology to determine and confirm construction requirements with suppliers and designers</li> <li>Give and receive instructions to work effectively with others and ensure safe work practices</li> <li>Use correct industry terminology to report damaged or defective tools and equipment</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Use measurements and formulas to calculate material quantities</li> </ul>

## Unit Mapping Information

<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>

AHCGR1402 Construct vertical gardens and green facades	Not applicable	The unit has been created to address an emerging skill or task required by industry	Newly created
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## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>