



Australian Government

Assessment Requirements for AHCGRI501 Design roof gardens

Release: 1

Assessment Requirements for AHCGR1501 Design roof gardens

Modification History

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

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 designed one compliant roof garden project with a minimum of 4 square metres and has:

- met design brief and project parameters
- consulted with green infrastructure specialists, building and/or landscape professionals
- complied with relevant regulatory authorities' policies and procedures, building regulations, standards and codes
- complied with the project design parameters set by an engineer or specialist
- used measurements and formulas to calculate material quantities, weights and estimated project costs
- incorporated provision of access and egress for construction and maintenance
- developed and documented a maintenance program to ensure sustainability of the green infrastructure.

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:

- professional practice requirements in roof garden design, including:
 - limitations and boundaries
 - roles and responsibilities of building professionals and authorities
- factors influencing roof garden design for existing and new buildings
- relevant legislation, standards and codes, including the National Construction Code (NCC)
- roof garden recirculating and non-recirculating/flood-drain systems
- site analysis, including:
 - climatic factors of wind, temperature, sunlight, rainfall and irrigation
 - drainage

- site access for construction and installation and ongoing maintenance
- reasons for creating roof gardens, including:
 - environmental
 - economic
 - social
- features, benefits and risks of roof gardens
- characteristics, properties and limitations of materials used for roof gardens, including:
- water-proofing material
- substrate
- root barrier
- drainage and irrigation systems
- storing and recycling water systems
- lighting systems
- characteristics, properties and limitations of plants used for roof gardens
- properties of types of green roofs, including:
- extensive
- intensive
- project cost estimating, including:
 - materials and labour
 - build costs, including transporting and storing materials and equipment, and provision of safety and equipment
 - ongoing maintenance.

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 design workplace or an environment that accurately represents workplace conditions
- specifications:
 - building regulations, standards and codes relevant to roof garden design
- relationships:
 - clients to discuss roof garden design requirements
 - building and/or landscape/horticultural professionals to consult with on building roof garden and regulatory requirements.

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

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>