

**Modification history**

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 7.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

AHCLSC309	Install water features
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to install water features, including preparing for work, setting out and preparing site, installing water feature and accessories, checking and cleaning up site. Water features may include waterfalls, ponds, waterways and fountains. They may be prefabricated as supplied by irrigation suppliers and garden centres or formed on site.</p> <p>The unit applies to individuals who install water features under broad direction, and take responsibility for their own work and for the quality of the work of others.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Landscape (LSC)

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 and prepare work	1.1 Interpret site plans and specifications 1.2 Identify potential hazards and risks, and implement safe working practices to manage risks 1.3 Check the quantity and quality of materials 1.4 Select tools and equipment required for installation work and check for serviceability 1.5 Select, fit, use and maintain personal protective equipment (PPE) applicable to the task 1.6 Identify the environmental implications of constructing water features
2. Set out and prepare the site	2.1 Determine, locate and mark out services from site plan 2.2 Determine the exact location and depth of excavations and mark out accordingly 2.3 Excavate site to the shape, depth and dimensions as marked out 2.4 Construct drainage systems as specified 2.5 Place and compact bedding material to the required finished levels 2.6 Sort and stockpile soil and waste material ready for removal, reuse or recycling
3. Install water feature and accessories	3.1 Install the waterproof membrane, prefabricated shell or formed 'in situ' feature as specified 3.2 Install all accessories to the feature as specified with consideration to safety issues 3.3 Fill the feature with water, test for leaks and repair accordingly 3.4 Treat water to remove or neutralise contaminants resulting from excavation and installation work

<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. Check quality of work and clean-up site	4.1 Check any mechanical features and adjust to ensure correct operation 4.2 Inspect quality of finished works to ensure the required standard has been achieved 4.3 Clean debris from structure and site 4.4 Dispose of or recycle soil and waste material from the site 4.5 Clean, maintain and store tools and equipment 4.6 Identify and report unserviceable tools and equipment according to workplace procedures

<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>Use clear language and industry standard terminology to report tool and equipment unserviceability</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>
AHCLSC309 Install water features Release 2	AHCLSC309 Install water features Release 1	Minor changes to application Minor changes to performance criteria Foundation skills added Assessment requirements updated	Equivalent

<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 AHCLSC309 Install water features</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 installed water features on at least two occasions and has:

- applied workplace health and safety requirements
- selected, used and maintained tools and equipment required for installation of water features
- interpreted site plans and specifications
- planned set out and prepared a water feature site using site plans and specifications
- marked out a site for water features according to design drawing and specifications
- used surveying instruments
- measured and calculated area, depth and volume
- used tools and equipment to excavate and construct a water feature
- checked quality of work and cleaned up the site
- reported unserviceable tools and equipment.

**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:

- workplace requirements applicable to health and safety in the workplace for installation of water features, including appropriate use of personal protective equipment (PPE)
- principles and practices of water feature installation, including:
  - pipe sizes, types and applications
  - pumping systems and accessories associated with water features
  - set-out techniques
  - water treatment methods.

**Assessment Conditions**

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

- physical conditions:
  - a workplace setting or an environment that accurately represent workplace conditions
- resources, equipment and materials:
  - workplace procedures applicable to installing water features
  - materials, tools and equipment applicable to installing water features
  - PPE applicable to installing water features
- specifications:
  - workplace requirements applicable to health and safety in the workplace for installing water features
  - site plans, design drawings and specifications applicable to installing water features
- timeframes:
  - according to job requirements.

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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