



Australian Government

AHCLSC320 Install water features

Release: 1

AHCLSC320 Install water features

Modification History

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

Application

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.

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.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Landscape (LSC)

Elements and Performance Criteria

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 quantity and quality of materials 1.4 Select tools and equipment required for installation work and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	check for serviceability 1.5 Select, fit, use and maintain personal protective equipment (PPE) applicable to the task 1.6 Identify 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 exact location and depth of excavations and mark out accordingly 2.3 Excavate site to shape, depth and dimensions as marked out 2.4 Construct drainage systems as specified 2.5 Place and compact bedding material to 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 waterproof membrane, prefabricated shell or formed 'in situ' feature as specified 3.2 Install all accessories to feature as specified with consideration to safety issues 3.3 Fill feature with water, test for leaks and repair accordingly 3.4 Treat water to remove or neutralise contaminants resulting from excavation and installation work
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 required standard has been achieved 4.3 Clean debris from structure and site 4.4 Dispose of or recycle soil and waste material from site 4.5 Clean, maintain and store tools and equipment 4.6 Identify and report unserviceable tools and equipment according to workplace procedures

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.

Skill	Description
Oral communication	Use clear language and industry standard terminology to report tool and equipment unserviceability
Numeracy	Measure and calculate area, depth and volume of water feature, read and use tape measures and scale rulers
Reading	Read and interpret manufacturer installation instructions for water features and/ or accessories

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCLSC320 Install water features	AHCLSC309 Install water features	Minor changes to application Minor changes to performance criteria Foundation skills added Assessment requirements updated	Equivalent

Links

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

Assessment Requirements for AHCLSC320 Install water features

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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:

- interpreted site plans and specifications
- planned set out and prepared a water feature site using site plans and specifications
- applied workplace health and safety requirements, included fitted and used personal protective equipment (PPE)
- selected, used and maintained tools and equipment required for installation of water features
- 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:

- principles and practices of water feature installation, including:
 - interpretation of site plans, design drawings and specifications relevant to water feature installation
 - pipe sizes, types and applications
 - pumping systems and accessories associated with water features
 - set-out techniques, including use of survey instruments relevant to installing water features
 - use of hand and power tools relevant to installing water features

- water treatment methods
- workplace requirements applicable to health and safety in the workplace for installation of water features, including appropriate use of PPE.

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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