



**Australian Government**

# **AHCDES401 Apply construction techniques to landscape design**

**Release: 1**

# AHCDES401 Apply construction techniques to landscape design

## 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 incorporate constructed elements into landscape designs, within site and budgetary requirements, and seek technical and specialist expertise.

The unit applies to individuals who apply specialist skills and knowledge to the application of construction techniques to landscape design. This includes applying and communicating non-routine technical solutions to predictable and unpredictable problems.

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

## Pre-requisite Unit

Nil

## Unit Sector

Design (DES)

## 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. Incorporate structures and features into a landscape design | 1.1 Identify and locate design structures and features to maximise efficient use of the space<br>1.2 Identify and source any required preliminary specialist expertise<br>1.3 Select materials that reflect the style and aesthetic of overall design concept<br>1.4 Assess suitability of constructed elements in relation to physical |

| Elements                                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i>                 | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                  |
|                                                                  | <p>properties of soils on site</p> <p>1.5 Assess effects of surface and subsurface water and drainage patterns on constructed elements</p> <p>1.6 Assess drainage requirements to ensure integrity of constructed elements in design</p>                                                                                                                                                |
| 2. Determine construction requirements                           | <p>2.1 Evaluate factors that impact on selection and construction of elements in the design</p> <p>2.2 Select materials according to properties and application within the design</p> <p>2.3 Determine construction techniques that support design, fit timelines and meet budget requirements</p> <p>2.4 Identify surface treatments appropriate for selected materials and design</p> |
| 3. Assess the need for supplementary water in a landscape design | <p>3.1 Identify available water in the landscape</p> <p>3.2 Determine the feasibility of using available water in the landscape</p> <p>3.3 Identify appropriate irrigation methods to support the design</p> <p>3.4 Incorporate irrigation requirements into the design or design documentation</p>                                                                                     |
| 4. Source technical services and expertise                       | <p>4.1 Determine construction requirements beyond the scope of own expertise</p> <p>4.2 Determine and consult with technical and specialist services beyond own scope of expertise as required</p>                                                                                                                                                                                      |

## 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                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|
| Reading            | <ul style="list-style-type: none"> <li>Identify and interpret information regarding design concept requirements</li> </ul> |
| Oral communication | <ul style="list-style-type: none"> <li>Initiate discussions, using clear language and standard industry</li> </ul>         |

| Skill    | Description                                                                                                                                                                                     |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | terminology to discuss and determine construction requirements                                                                                                                                  |
| Numeracy | <ul style="list-style-type: none"><li>Estimate construction budget and timelines</li><li>Take and record measurements</li><li>Calculate quantities and cost of construction materials</li></ul> |

## Unit Mapping Information

| Code and title<br>current version                           | Code and title<br>previous version | Comments                                                                            | Equivalence status |
|-------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|--------------------|
| AHCDES401 Apply construction techniques to landscape design | Not applicable                     | The unit has been created to address an emerging skill or task required by industry | Newly created      |

## Links

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