



Australian Government

AHCDES405 Produce 2-D landscape drawings using CAD software

Release: 1

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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 produce two-dimensional (2-D) drawings for landscape designs using computer-aided design (CAD) software for residential, commercial or public open space projects.

The unit applies to individuals who apply specialist skills and knowledge to produce 2-D landscape drawings using CAD software. This includes applying and communicating non-routine technical solutions to predictable and unpredictable problems.

All work is carried out to comply with workplace procedures, health and safety in the workplace requirements, legislative and regulatory requirements.

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. Create a landscape drawing template file	1.1 Set up drawing environment according to design drawing requirements 1.2 Create suitable layering strategy according to design drawing

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	requirements 1.3 Create landscape design library according to design drawing requirements 1.4 Create text and dimensions styles according to design drawing requirements
2. Produce landscape drawings	2.1 Clarify drawing requirements 2.2 Produce drawings using appropriate layers 2.3 Add drawing notations according to Australian standards and design drawing requirements 2.4 Apply scale and dimensions to drawing according to Australian standards and design drawing requirements 2.5 Import symbols to represent landscape features 2.6 Setup tool bars and apply essential status toggles appropriate for the CAD software program
3. Edit drawing components	3.1 Remove unnecessary elements and text from existing drawings 3.2 Use editing commands to modify drawing elements and existing text 3.3 Set up title blocks
4. Plot or print CAD drawings	4.1 Set page layout to suit printing or plotting requirements 4.2 Set print parameters for printer or plotter 4.3 Select correct print media and print or plot drawings 4.4 Apply basic palette editing and tool shortcuts
5. Save and back up files	5.1 Create drawing project file directory 5.2 Save and back up drawing files to specified drives or directories 5.3 Retrieve, rename and edit saved files as required
6. Import files	6.1 Import text files into CAD drawings from other software 6.2 Import blocks or components into files and drawings

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	Interpret detailed plans, specifications and design briefs to prepare and produce 2-D landscape CAD drawings
Writing	Record key design information and notations using correct conventions and terminology
Oral communication	Use questioning and careful listening to clarify drawing requirements from clients or relevant project personnel
Numeracy	- Identify and record layers, measurements and other numerically expressed information required for landscape drawings - Operate numerical functions of CAD equipment to produce accurate scales, dimensions, ratios and measurements

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCDES405 Produce 2-D landscape drawings using CAD software	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>

Assessment Requirements for AHCDES405 Produce 2-D landscape drawings using CAD software

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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 produced two-dimensional (2-D) landscape drawings using computer-aided drawing (CAD) software on at least one occasion and has:

- used features and functions of CAD software to produce 2-D landscape drawings
- applied creative design, drawing and drafting skills, including:
 - characteristics and annotated styles
 - drafting methods
 - drafting technologies
 - drafting equipment
- clarified drawing requirements with client or relevant project personnel
- applied Australian standards and design drawing requirements relevant to producing 2-D landscape drawings
- followed CAD operating instructions and workplace procedures.

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 drawing 2-D landscape drawings using CAD software, including:
 - drawing requirements, protocols and features relevant to landscape drawings
 - CAD hardware, software, tools and equipment used for drawing 2-D landscape drawings
 - CAD operating instructions
 - CAD software program features and functions, including; drawing tools, view displays, edit functions, working with layers, plotting, printing and file save functions
 - workplace digital file management procedures

- Australian standards, workplace procedures and design drawing requirements relevant to producing 2-D landscape drawings.

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 represents workplace conditions
- resources, equipment and materials:
 - plans specifications and design briefs applicable to producing 2-D landscape drawings using CAD software
 - CAD software, hardware, printers and peripheral equipment
- specifications:
 - CAD operating instructions
 - Australian standards, workplace procedures and design drawing requirements relevant to producing 2-D landscape drawings
- relationships:
 - client or relevant project personnel
- 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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