Australian Government

AHCARB507 Generate tree plans using computer-aided design software

Release: 1

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Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to generate tree plans using computer-aided design software.

This unit applies to individuals who take personal responsibility and exercise autonomy in undertaking complex work, to analyse and synthesise information and design, and to communicate solutions to complex problems. Work is performed in accordance with Australian Standards and industry drawing protocols.

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

Pre-requisite Unit

Nil.

Unit Sector

Arboriculture (ARB)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Confirm project and drawing requirements	1.1 Confirm project requirements for computer-aided design (CAD) drawings 1.2 Identify drawing requirements, purpose and scope and confirm with relevant project personnel
2. Create drawing template files to meet standard drawing	2.1 Set up basic drawing environment 2.2 Create layering strategy as required

Element	Performance criteria
requirements	2.3 Create arboricultural and architectural library of standard detail and components
	2.4 Create text and dimension styles
	2.5 Create line types of different thicknesses to provide visual differentiation of plan elements
	2.6 Create hatch patterns and types
	2.7 Set up title blocks for different drawing sizes
	2.8 Set up reference schedules as required
3. Create 2-D drawings	3.1 Use 2-D CAD software programs and functions to produce different types of 2-D drawings using appropriate layers as required
	3.2 Import digital text and drawing files from other software applications into 2-D CAD drawings
	3.3 Scan and save hard copy documents as correct file types to import into 2-D CAD drawings
4. Edit, measure and inspect drawing components	4.1 Delete or purge elements that are not required from drawings
	4.2 Add notations to drawings as required
	4.3 Add dimensions and scales to drawings as required
	4.4 Use editing commands to modify drawing elements and text
	4.5 Plot trees with precision
	4.6 Differentiate visually trees to be retained, removed and transplanted
	4.7 Calculate areas of tree protection zones (TPZ), encroachments and distances
	4.8 Undertake quality control check of drawing
5. Print CAD drawings	5.1 Set page layout with appropriate scale and lineweights for the drawing file to suit printing requirements
	5.2 Set print parameters for the printer
	5.3 Print drawings on the correct media
6. Save and back up files	6.1 Create suitable file directories for the drawing project
	6.2 Save drawing files for later retrieval and back up to specified drives or directories
7. Export files	7.1 Create drawing files and send to external personnel for use in different software applications
	7.2 Create portable document format (PDF) files for relevant personnel to view completed drawings without using CAD software packages

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

New unit - no equivalent.

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72

Skills Impact