



Australian Government

CUAACD302 Produce computer-aided drawings

Release: 1

CUAACD302 Produce computer-aided drawings

Modification History

Release	Comments
Release 1	This version first released with CUA Creative Arts and Culture Training Package version 2.0.

Application

This unit describes the skills and knowledge required to use a range of computer-aided design and drafting (CADD) program functions to produce drawings. The focus of this unit is on the technical skills required to operate CADD, not on design skills.

It applies to individuals who use computer-aided drawing skills in various contexts.

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

Unit Sector

Visual communication – art, craft and design

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for computer-aided drawing work	1.1 Clarify drawing requirements in concept or project information 1.2 Identify hardware, software, tools and equipment required for computer-aided design and drafting projects 1.3 Set up hardware and software according to operating instructions and organisational procedures 1.4 Identify and retrieve digitised information relevant to projects
2. Gather object parameters and/or measurements	2.1 Establish and record critical dimensions and data for required designs 2.2 Identify requirements in relation to accuracy, tolerances and other key information
3. Prepare plots or	3.1 Access and use CADD functions and features according to

ELEMENT	PERFORMANCE CRITERIA
drawings	operating instructions 3.2 Access and use peripheral equipment required for projects 3.3 Prepare and review preliminary drawings in consultation with relevant people
4. Finalise drawings	4.1 Check designs against project objectives and specifications according to organisational procedures 4.2 Identify and make required adjustments to designs based on review and consultation with relevant people 4.3 Store data files according to operating instructions and organisational procedures 4.4 Submit final drawings within agreed time parameters

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.1, 1.2, 1.3, 1.4, 2.2, 3.1, 4.1	- Interprets and evaluates detailed information, instructions and technical specifications in a range of formats to prepare for and produce computer aided drawings - Reviews accuracy of drawings against specifications and project information
Writing	2.1, 2.2	Records key design information using correct conventions and terminology
Oral Communication	1.1, 3.3	Uses questioning and careful listening to elicit information and opinions from others
Numeracy	2.1, 2.2, 3.1	- Identifies and records measurements and other numerically expressed specifications required for drawings - Operates numerical functions of computer aided drawing equipment to produce drawings to accurate scale and measurements
Navigate the world of work	1.3, 4.1, 4.3	Takes responsibility for following necessary organisational procedures when planning and

		undertaking work
Interact with others	3.3	Participates in review of work progress with relevant people
Get the work done	1.1-1.4, 2.1, 2.2, 3.1-3.3, 4.1-4.4	- Plans and organises required equipment, software and data in logical steps according to workplace and project requirements - Prepares preliminary drawings for evaluation by others and makes recommended refinements - Uses features of digital systems and tools to produce, edit, store and retrieve drawings - Manages time to complete final drawings within established timeframes

Range of Conditions

This section specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

CADD functions and features must include:	- drawing tools to support methods for drawing: - lines - arcs - polylines - texts - dimensions - edit functions - plotting and printing - view displays - working with layers.
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
CUAACD302 Produce computer-aided drawings	CUVACD302A Produce computer-aided drawings	Updated to meet Standards for Training Packages and clarify intent.	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1db201d9-4006-4430-839f-382ef6b803d5>

Assessment Requirements for CUAACD302 Produce computer-aided drawings

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Performance Evidence

Evidence of the ability to:

- select computer-aided design and drafting (CADD) hardware and software to suit project requirements
- follow operating instructions and organisational procedures
- use features and functions of a CADD program to produce drawings that meet project objectives
- use feedback from others to refine and produce final drawings within specified timelines.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- outline the relevant hardware, software, tools and equipment used for CADD
- describe the ways in which CADD is used within the specific workplace situation
- describe typical features and functions of CADD programs, including drawing tools, view displays, edit functions, working with layers, plotting and printing.

Assessment Conditions

Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance of typical activities experienced in creative arts industry environments. The assessment environment must include access to:

- CADD equipment and software
- project or concept information
- operating instructions and organisational procedures
- relevant people.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational educational and training legislation, frameworks and/or standards.

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