CUAACD312 Produce computer-aided drawings

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with CUA Creative Arts and Culture Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to use different computer-aided design and drafting (CADD) program functions to produce drawings and documentation. It involves preparing to undertake the work, understanding the object or project brief parameters and measurements and finalising drawings according to requirements. The focus of this unit is on the technical skills required to operate CADD, not on design skills.

The unit applies to those 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
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Prepare for computer-aided drawing work	1.1 Clarify drawing requirements and objectives 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 as required 1.4 Identify and retrieve digitised information required for projects
2. Gather object parameters and measurements	2.1 Establish and record critical dimensions and data for required designs 2.2 Identify requirements in relation to accuracy, tolerances and

ELEMENT	PERFORMANCE CRITERIA
	other information according to drawing requirements
3. Prepare plots or drawings	3.1 Access and use CADD functions and features according to operating instructions
	3.2 Access and use peripheral equipment required for projects
	3.3 Prepare and review preliminary drawings in consultation with required personnel
4. Finalise drawings	4.1 Check designs against project objectives and specifications and mark up documentation according to organisational procedures
	4.2 Identify and make required adjustments to designs in consultation with required personnel
	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 those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Reading	• Interprets and evaluates detailed information, instructions and technical specifications in different formats when preparing for and producing computer aided drawings
	• Reviews accuracy of drawings against specifications and project information
Writing	• Records key design information using industry standard conventions and terminology
Oral Communication	• Elicits information and opinions from others using questioning and careful listening
Numeracy	• Identifies and records measurements and other numerically expressed specifications required for drawings
	• Operates numerical functions of computer aided drawing equipment and produces drawings to scale and measurements that meet drawing requirements
Self-management	• Takes responsibility for following necessary organisational procedures when planning and undertaking work
Teamwork	• Participates in review of work progress with required personnel

SKILL	DESCRIPTION
Planning and organising	• 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 • Manages time to complete final drawings within established timeframes
Technology	• Produces, edits, stores and retrieves drawings using features of digital systems and tools

Unit Mapping Information

Supersedes and is equivalent to CUAACD302 Produce computer-aided drawings.

Links

Companion Volume Implementation Guide is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1db201d9-4006-4430-839f-382ef6b803d5