



Australian Government

CUADES411 Generate design solutions

Release: 1

CUADES411 Generate design solutions

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 generate design solutions in response to a particular design need.

The unit applies to those who generate concepts and solutions in response to a design challenge in any industry context. The starting point may be an open or closed brief; a spontaneous idea; modification of an existing product, service, process or system; or a point in an ongoing design process.

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

Unit Sector

Design – Design Process

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 Define the design challenge	1.1 Determine and evaluate stakeholder needs 1.2 Clarify specifications, parameters and constraints of the design challenge in consultation with required personnel 1.3 Articulate essence of the design challenge in a format that meets stakeholder requirements
2 Undertake research to inform the design solution	2.1 Source and evaluate information that may assist in responding to the design challenge 2.2 Determine historical, current and future perspectives and trends that might inform design solutions 2.3 Identify applicable social, economic, environmental, ethical and cultural issues that may impact design

ELEMENT	PERFORMANCE CRITERIA
	solutions 2.4 Analyse, distil and collate information to inform the development of the design solution
3 Communicate and collaborate with others	3.1 Establish and develop working relationships with required personnel 3.2 Seek and integrate input and ideas from others during design process 3.3 Inform key stakeholders about progress of the design and related implications 3.4 Negotiate and agree on any changed requirements or modifications
4 Generate ideas and responses to the design challenge	4.1 Examine and integrate ideas generated from research and consultation 4.2 Generate different options and ideas using creative thinking techniques
5 Select a design solution	5.1 Evaluate different options and ideas using developed criteria 5.2 Select a solution based on agreed criteria and in consultation with required personnel 5.3 Adjust and refine proposed design solution based on research, testing and reflection 5.4 Present proposed design solution with applicable supporting documentation according to project requirements

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	Researches, collates and analyses textual information from different sources
Writing	- Documents ideas, sources and concepts using applicable formats and specific language - Refines and edits work
Oral Communication	- Participates in verbal exchanges of ideas and elicits views and opinions of others using listening and questioning techniques - Clarifies, explains or presents information relating to design solution

SKILL	DESCRIPTION
	using clear and specific language applicable for audience
Numeracy	• Interprets numeric data and applies mathematical calculations applicable to design solution
Self-management	• Understands nature and purpose of own role and associated responsibilities and how it contributes to the work of others in immediate work context • Selects the applicable form, channel and mode of communication for a specific purpose required for own role
Teamwork	• Cooperates with others as part of familiar routine activities and contributes to specific activities requiring joint responsibility and accountability
Planning and organising	• Takes responsibility for planning and implementing required tasks
Problem-solving	• Analyses and evaluates information systematically to aid in decision making and problem solving
Initiative and enterprise	• Applies some basic principles of lateral thinking to generate new or innovative ideas

Unit Mapping Information

Supersedes and is equivalent to BSBDES401 Generate design solutions.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for CUADES411 Generate design solutions

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- generate design solutions according to at least two different stakeholder needs.

In the course of the above, the candidate must:

- develop and document a design solution through research, reflection, and generation and refinement of ideas
- apply principles of functionality, ergonomics, aesthetics and sustainability to the development of ideas
- communicate effectively in collaboration with others in the design process.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- elements and principles of design and their application in the applicable design context
- key features of the wider industry, and the economic, social and historical context design solutions are being generated in
- design trends and technologies, including other designs and the work of other design practitioners in the relevant industry context
- sources of information that support the development of technical and other knowledge
- materials, tools, equipment, techniques and processes used in the generation of design solutions in the applicable industry context.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- interaction with others for the collaborative nature of the design process
- sources of information on design for the applicable industry context.

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

Links

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