



Australian Government

BSBDES401 Generate design solutions

Release: 1

BSBDES401 Generate design solutions

Modification History

Release	Comments
Release 1	This version first released with BSB Business Services Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to generate design solutions in response to a particular design need.

It applies to individuals 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.

This unit builds on BSBDES201 Follow a design process, and places greater focus on research, concept generation and collaboration with others as key aspects of the 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 user/client needs 1.2 Clarify specifications, parameters and constraints of the design challenge in consultation with relevant stakeholders 1.3 Articulate essence of the design challenge in an appropriate format
2 Undertake research to inform the design	2.1 Source, evaluate and acknowledge information that may

ELEMENT	PERFORMANCE CRITERIA
solution	assist in responding to the design challenge 2.2 Consider historical, current and future perspectives and trends that might inform design solutions 2.3 Consider relevant social, economic, environmental, ethical and cultural issues that may impact design 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 key stakeholders 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 Reflect on and integrate ideas generated from research and consultation 4.2 Use a range of creative thinking techniques to generate different options and ideas 4.3 Apply relevant principles of functionality, ergonomics, aesthetics and sustainability to development of different options
5 Select a design solution	5.1 Develop and use a range of criteria to evaluate different options and ideas 5.2 Select a preferred solution based on agreed criteria and in consultation with relevant key stakeholders 5.3 Adjust and refine proposed design solution based on research, testing and reflection 5.4 Present proposed design solution with appropriate supporting documentation according to project requirements

Foundation Skills

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

Skill	Performance	Description
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	Criteria	
Reading	1.1, 1.2, 2.1, 2.4	Researches, collates and analyses textual information from a wide range of sources
Writing	1.2, 1.3, 2.1, 2.4, 5.1, 5.3, 5.4	- Documents ideas, sources and concepts using appropriate formats and specific language - Refines and edits work
Oral Communication	1.2, 1.3, 3.2-3.4, 5.2, 5.4	- Actively participates in verbal exchanges of ideas and elicits views and opinions of others by listening and questioning - Clarifies, explains or presents information relating to design solution using clear and specific language appropriate to audience
Numeracy	1.3, 4.3, 5.1, 5.4	Interprets numeric data and applies mathematical calculations relevant to design solution
Navigate the world of work	2.3	Understands nature and purpose of own role and associated responsibilities and how it contributes to the work of others in immediate work context
Interact with others	1.3, 3.1, 5.4	- Selects the appropriate form, channel and mode of communication for a specific purpose relevant to own role - Cooperates with others as part of familiar routine activities and contributes to specific activities requiring joint responsibility and accountability
Get the work done	1.1, 2.1, 2.2, 2.4, 4.1-4.3, 5.1-5.3	- Takes responsibility for planning and implementing tasks required to achieve outcomes, including those times when interaction with others is - Systematically analyses and evaluates information to aid in decision making and problem solving - Applies some basic principles of lateral thinking to generate new or innovative ideas

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
BSBDES401 Generate design solutions	BSBDES401A Generate design solutions	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=11ef6853-ceed-4ba7-9d87-4da407e23c10>

Assessment Requirements for BSBDES401 Generate design solutions

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Performance Evidence

Evidence of the ability to:

- develop and document a design solution through research, reflection, and generation and refinement of ideas
- demonstrate effective collaboration with others in the design process.

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:

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

Assessment Conditions

Assessment must be conducted in a safe environment where evidence gathered demonstrates consistent performance of typical activities experienced in the design process field of work and include access to:

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

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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