



Australian Government

ICTICT432 Develop detailed technical design

Release: 1

ICTICT432 Develop detailed technical design

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to assist in the development of a detailed technical design.

It applies to individuals performing systems design tasks as part of a team who are required to review and update technical design documents according to client requirements.

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

Unit Sector

General ICT

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. Assist in selecting technical design features	1.1 Establish business environment and client requirements 1.2 Select and revise design model based on iteration and design changes 1.3 Incorporate outstanding design points according to client requirements 1.4 Distribute reports identifying changes and implications to required personnel for review
2. Review designs	2.1 Compare design against technical requirements and amend as required 2.2 Confirm design with required personnel 2.3 Gather information and client feedback on design changes and respond accordingly

ELEMENT	PERFORMANCE CRITERIA
	2.4 Incorporate required design changes
3. Contribute to development of program specifications	3.1 Implement modules using incremental development techniques 3.2 Identify user authority for each module 3.3 Prepare detailed specifications of module implementation for each module 3.4 Prepare documentation according to project requirements and organisational procedures and guidelines

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	• Identifies, analyses and evaluates a range of online and hard copy text containing complex systems design terminology, syntax and diagrams, and applies information to task
Writing	• Uses spelling and grammar, plain English, systems design related terminology and diagrams to obtain feedback, document recommendations and prepare final project specifications
Oral Communication	• Uses listening and questioning techniques and, where applicable, project related terminology to liaise with clients, present information and obtain feedback
Teamwork	• Selects and uses required conventions and protocols when communicating with clients and co-workers in a range of work contexts • Uses strategies to establish a sense of connection and build rapport with clients and co workers
Planning and organising	• Applies formal processes when developing strategic initiatives, and plans tasks with logically sequenced steps
Problem-solving	• Initiates standard procedures when responding to familiar problems within immediate context
Technology	• Uses digital systems and tools to incorporate required changes to model • Uses digital technologies and systems to access information, search and enter data and code, present information and communicate with others, cognisant of data security and safety

Unit Mapping Information

Supersedes and is equivalent to ICTICT405 Develop detailed technical design.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>

Assessment Requirements for ICTICT432 Develop detailed technical design

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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:

- assist in developing a detailed technical design according to client requirements.

In the course of the above, the candidate must:

- define client business environment and client's critical business functions and processes
- design and prepare a best-fit technical design for a set project, incorporating:
 - changes to design model based on user requirements
 - detailed specification of modules and user authority for each module
- produce updated documentation reflecting changes made to required personnel.

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:

- technical design project life cycle
- key principles and techniques required to develop detailed technical design, including:
 - incremental development
 - module implementation
 - documentation
 - design fundamentals and refinement
 - design quality metrics
- different client business environments and critical functions and process
- industry standard design models applicable to developing detailed technical designs
- organisational procedures and guidelines applicable to developing detailed technical designs.

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:

- business and client requirements
- project deliverables
- required hardware and digital devices
- required software, tools and licenses
- feedback mechanisms
- industry standard ICT blueprint.

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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