



Australian Government

ICTDBS413 Determine database requirements

Release: 1

ICTDBS413 Determine database requirements

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 4.0.

Application

This unit describes the skills and knowledge required to identify the scope and the physical and security requirements of a database, including the assessment and identification of options to meet user requirements.

It applies to individuals employed as database administrators who are required to plan and select a database to meet user requirements.

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

Unit Sector

Database

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. Determine the database size	1.1 Determine the database scope from the user requirements 1.2 Calculate the database size from the database scope and technical specifications. 1.3 Document and justify the size and scope of the database
2. Develop the technical database requirements	2.1 Design and document the data tables and relationships suitable to the user requirements and data sample 2.2 Develop and document the data dictionary, table attributes and keys suitable to the user requirements 2.3 Determine and document the database reports required by the user requirements and user acceptance criteria

3. Determine security, performance, recovery and audit requirements	3.1 Determine and document database security controls appropriate for the user requirements and the organisational data security plan 3.2 Determine and document database performance, database recovery and database audit requirements to meet the user requirements and the organisational data security plan
4. Seek client feedback and approval	4.1 Evaluate and document database management systems against the database scope and size, technical database requirements, and security, performance, recovery and audit requirements to determine the appropriate option for the user 4.2 Present database scope and size, technical database requirements, and security, performance, recovery and audit requirements documentation to the user for feedback 4.3 Review user feedback and adjust the database documentation to meet the user acceptance criteria and user feedback 4.4 Present database documentation to the user for final approval

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 analyses textual information in order to gather detailed information, and confirm requirements
Numeracy	Extracts and calculates numerical information from textual and numerical information to determine and confirm requirements
Writing	Uses technically appropriate language and presents information in a format and layout that conveys factual information
Oral Communication	Uses active listening, questioning and summarising skills, in order to effectively identify, and confirm, requirements
Get the work done	- Uses systematic, analytical processes in complex, non-routine situations, setting goals, gathering relevant information, and identifying, and evaluating options against the agreed criteria - Applies formal problem-solving processes when tackling an unfamiliar problem, breaking complex issues into manageable parts, identifying, and evaluating several options for action - Understands key principles and concepts underpinning the design and operation of digital systems and tools, and applies these when

	identifying database scope and requirements
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTDBS413 Determine database requirements	ICTDBS401 Identify physical database requirements	Edits to title and application to clarify intent and scope. Edits to elements 1–4 and assessment requirements to clarify intent.	Equivalent unit

Links

Companion Volume Implementation Guides are available from VETNet -

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