



Australian Government

Assessment Requirements for ICTDBS601 Build a data warehouse

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Performance Evidence

Evidence of the ability to:

- review and document the database's design, and security, for the current and future business requirements
- identify and document, the specifications for the storage of different types and sources of data
- develop a cost benefit analysis for a data warehouse
- design, develop, test, and implement a data warehouse that reflects the business's knowledge management strategy
- document the operation of the data warehouse.

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 business operating systems related to the data sources
- outline database management system (DBMS) fundamentals, in order to facilitate the extraction of data
- define "Big Data" and summarise its use and management, in the corporate sector
- identify and apply, the decision-support systems related to knowledge management strategies
- explain encryption and authentication as they apply to database security features
- outline the functions and features of dimension tables and fact tables
- explain the installation and use of proprietary software
- explain the logical database model knowledge needed to facilitate data extraction
- describe the relationship between databases and data warehouses

- define the levels of technical documentation required for newly developed data management systems.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the database field of work, and include access to:

- equipment and materials
- industry software packages
- data in a DBMS
- a data-warehousing tool.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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