



Australian Government

Assessment Requirements for ICTPRG432 Develop data-driven applications

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 6.0.

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:

- create at least one data access driven application.

In the course of the above, the candidate must:

- select and code data-access layer of multi-layer applications
- retrieve and update data from at least one data source
- document all changes including code and database connectivity.

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:

- features of object-oriented design and multi-layer applications
- relational database management systems, functions and tools
- data-access-layer (DAL) and its functions
- a range of application programming interfaces (API)
- different data providers and vendors
- object-oriented programming expressions and formulas at an intermediate level
- principles of Structured Query Language (SQL)
- organisational guidelines and procedures applicable in assisting the development of data-driven applications.

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:

- integrated development environment (IDE)
- data access application program interfaces (APIs)
- required data-access layer (DAL)
- database management system software and files
- coding standards
- specific tools and licences, as required for particular data-access API
- different types of data-access methods including data retrieval and storage, back-end coding and disconnected data management.

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

Links

Companion Volume Implementation Guide is found on VETNet -

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