ICTDBS504 Integrate database with a website

# Modification History

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

# Application

This unit describes the skills and knowledge required to ensure the database is integrated with a website.

It applies to individuals employed as web developers who are responsible for creating data-driven web applications.

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 |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Connect to the database | 1.1 Identify site data needs from the technical requirements  1.2 Connect to the database from a web application using a web development language |
| 2. Retrieve data from database and display on web pages | 2.1 Retrieve data using structured query language (SQL)  2.2 Display the data in the most appropriate control  2.3 Format the data so that it is displayed in the most effective way |
| 3. Update the database data from user input | 3.1 Update the existing data stored in the database with user-supplied input  3.2 Insert the data in the database with user-supplied input  3.3 Delete the data stored in the database  3.4 Validate the data and check for errors |

# Foundation Skills

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

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| --- | --- | --- |
| Skill | Performance Criteria | Description |
| Reading | 1.1, 3.1, 3.3, 3.4 | * Interprets textual information from the sources in order to identify relevant and key information |
| Writing | 1.2, 2.3, 3.1, 3.2 | * Writes and edits computer input data, code and technical data, ensuring correct syntax and accuracy |
| Get the work done | All | * Uses systematic, analytical processes in complex, non-routine situations, setting goals, gathering relevant information, and identifying, and evaluating options against agreed criteria * Uses analytical processes to decide on a course of action, and establishes the criteria for deciding between different options * Demonstrates a sophisticated understanding of principles, concepts, language and practices associated with the digital world, and uses these to connect to a database from a web application, retrieving, displaying and updating data |

# Unit Mapping Information

| Code and title  current version | Code and title  previous version | Comments | Equivalent status |
| --- | --- | --- | --- |
| ICTDBS504 Integrate database with a website | ICADBS504A Integrate database with a website | Updated to meet Standards for Training Packages.  Minor edits to clarify intent of the performance criteria | Equivalent unit |

# Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>