**QUALIFICATION STUDY GUIDE**

ICTDBS504 – Integrate database with a website

Semester 2 2016

**GENERAL INFORMATION**

**Assessment**

TAFE delivers competency based training (CBT) under the National Vet Regulator (NVR) Standards. CBT focuses on the skills and knowledge required to perform tasks and duties to the standard expected in employment. A student who has been assessed as satisfactory for all assessment items in a unit of competency will receive a J result. Students who are assessed as Not Satisfactory for all assessment items after two attempts will receive an M result. Students who partially participate but who do not complete assessment/s will receive an AW result.

**Flexible/Distance Participation**

Students will need to demonstrate participation within the learning activity for each unit/module being studied. You will need to be in regular contact with your teacher to demonstrate your progress and understanding of the content of the unit/module. You may therefore be asked to submit activities or exercises to your teacher and/or to respond to contact from your teacher. Please be aware that no evidence of participation or not achieving competency may affect Centrelink benefits.

**Library**

The library has a full range of services, DVDs, magazines, journals, online catalogue and online resources that may assist you in the completion of your studies. Read more here: xxxx

**My.TAFE**

Students can assess TAFE’s online learning management system my.TAFE as <http://my.tafe.qld.gov.au/>. The username is your student number, and your password is initially emailed on enrolment. Within my.TAFE all students can assess the orientation site and those with online program materials will also see a link to their online program group on the message desktop.

**Orientation**

Students are required to undergo a Student Orientation which covers Occupational Health and safety and important information about studying at TAFE. This may be undertaken in class or in my.TAFE for online students. Student Rules are available on the TAFE Queensland Internet: <http://www.tafe.qld.gov.au/students/rules/index.html>, a Handbook is available for TNQIT and MIIT and a Student Welcome Letter is available for BRIT.

**Recognition of Prior Learning**

Recognition of Prior Learning (RPL) recognises your existing experience grained through life or work for which you may not have obtained a formal qualification. We will work with you to identify your existing skills, and assess if you can then achieve a full or partial qualification. This also helps to avoid unnecessary duplication of training, saving you time and money. More information: xxxx

**Student Self-Service**

To view your progress, including results, and manage your my.TAFE password, visit <http://enrol.tafe.qld.gov.au>.

**Student Support and Access Information**

Free student counselling, equity, disability, learning support, Aboriginal and Torres Strait Islander and International Student Support are available. Read more on our internet site.

GETTING STARTED

## *Welcome*

Welcome to Diploma Web Cluster. We hope that the learning experiences provided to you will be both enjoyable and provide you with the skills to advance your information technology career.

The mode of delivery is classroom sessions supplemented with tutorial activities. Students will be studying via a mixed delivery consisting of face-to-face, web based learning tools, handouts, self-directed learning and various internet resources.

It is an expectation at Diploma level that you have the necessary skills and knowledge before undertaking this course.

If a student attends all scheduled classes and works well during these sessions, it should be possible to complete the cluster without an excessive need of home computing equipment and resources. However, students will still be required to do study and research in their own time. Extra facilities are available at both the City campus and Pimlico campus library.

## *Contact Details*

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**ICTDBS504 - Integrate database with a website**

**Unit Descriptor**

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

**Application of the Unit**

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

**Licensing/Regulatory Information**

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement but users should confirm requirements with the relevant federal, state or territory authority.

**Pre-Requisites**

Not applicable.

## Elements

**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

**Element 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

**Element 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

**Critical aspect of Evidence**

Evidence of the ability to:

* access database using a web development language
* retrieve and display web-based data
* update web-based data.

To demonstrate competency in this unit the person will require access to:

* equipment
* industry software packages
* the requirements documentation
* a web server
* a database
* the web development environment
* browsers.

## *Legislative/Licensing Requirements*

**NIL**

## *Study Progress, Workload Pace and Timeline*

Students are expected to achieve satisfactory progress in their studies. If you are having difficulty, discuss the situation with your teacher or a Student Counsellor as soon as possible.

The following is a suggested sequence and timeline for your studies. This is a guide only and is intended to assist students in gaining maximum benefit from their study and to ensure completion within the allowed timeframe (that is prior to the official close of study).

## *Learning Skills*

Whilst most of us enjoy gaining new skills and knowledge, some students may find studying a challenge.  Useful tips to assist you as you work your way through this qualification can be found on the my.TAFE page for this qualification under the heading ‘Learning Skills’.

## *Texts*

**Nil**

## *Study Schedule*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Session** | **Topic** | **Assessment/ Activities** | **NTP Relation** | **Date Delivered** |
| Week 1  11 Apr 16 | * Analyse technical requirements * Create databases with phpmyadmin * Connect to databases with php * Write php and sql to connect to databases and retrieve, submit, update and delete data * Validate data * Web programming concepts:   + authentication /security   + HTTP   + Session management   + Stateless programming | Hand out Assessment 1 - ICTDBS504 | ICTDBS504 |  |
| Week 2  18 Apr 16 | * Review PHP and SQL as required * Work on Assessment 1 | Assessment 1 - ICTDBS504 |  |  |

## *Additional Requirements*

Memory Stick/External Hard drive