



# CANTERBURY

## TECHNICAL INSTITUTE

# ASSESSMENT

## ICT50715

### Diploma of Software Development

#### Testing and Validation

Assessment Code:

DITS-PRG503

ICAPRG503 Debug and monitor applications

**Candidate must fill this section:**

<b>Candidate Name:</b>			
<b>Candidate ID:</b>			
<b>Privacy Release Clause:</b>	"I give my permission for my assessment material to be used in the auditing, assessment validation & moderation Process"		
<b>Candidate Signature:</b>		<b>Date:</b>	

**Assessment Completion Status:**

(Trainer Use Only)

Attempt	Satisfactory	Non-Satisfactory	Date	Assessor's Signature
Initial attempt	<input type="checkbox"/>	<input type="checkbox"/>		
2 <sup>nd</sup> attempt/Re-assessment	<input type="checkbox"/>	<input type="checkbox"/>		

## Information for Candidate:

- All work is to be entirely of the candidate.

### General Information for this assessment:

- Read the instructions for each question very carefully.
- Be sure to PRINT your FULL name & LAST name in every place that is provided.
- Short questions must be answered in the spaces provided.
- For those activities requesting extra evidence such as: research reports, ESSAY reports, etc. The student must attach its own work formatted in double space, Arial 12 pts.
- All activities must be addressed correctly in order to obtain a competence for the unit of competency.
- If the candidate doesn't understand the assessment, they can request help from the assessor to interpret the assessment.

## Re-assessment of Result & Academic Appeal procedures:

If a student at CTI is not happy with his/ her results, that student may appeal against their grade via a written letter, clearly stating the grounds of appeal to the Deputy Principal. This should be submitted after completion of the subject and within fourteen days of commencement of the new term.

### Re-assessment Process:

- An appeal in writing is made to the Deputy Principal providing reasons for re-assessment /appeal.
- Deputy Principal will delegate another faculty member of CTI to review the assessment.
- The student will be advised of the review result done by another assessor.
- If the student is still not satisfied and further challenges the decision, then a review panel is formed comprising the lecturer/trainer in charge, the Deputy Principal and the Director of Student Services OR if need be an external assessor.
- The Institute will advise the student within 14 days from the submission date of the appeal. The decision of the panel will be deemed to be final.
- If the student is still not satisfied with the result, the he / she has the right to seek independent advice or follow external mediation option with CTI's nominated mediation agency.
- Any student who fails a compulsory subject or appeals unsuccessfully will be required to re-enrol in that subject.

The cost of reassessment will be borne by the Institute. The external assessor will base his/her judgement based on principles of assessment. These principles require assessment to be reliable, fair, practical and valid.

### Academic Appeals

- If you are dissatisfied with the outcome of the re-evaluation process, you have a right to appeal through CTI's complaint / grievance protocol.
- The notice of appeal should be in writing addressed to the Deputy Principal and submitted within seven days of notification of the outcome of the re-evaluation process.
- If the appeal is not lodged in the specified time, the result will stand and you must re-enrol in the unit.
- In emergency circumstances, such as in cases of serious illness or injury, you must forward a medical certificate in support of a deferred appeal. The notice of appeal must be made within three working days of the concluding date shown on the medical certificate.
- The decision of Deputy Principal will be discussed with the PEO and will be final.
- Student would then have the right to pursue the claim through an independent external body as detailed in the students' complaint / grievance policy.

## Feedback/Comments:

## Acknowledgement

I understand all the above rules, guidelines and feedback for this assessment.

<b>Full Name:</b>		<b>Signature:</b>		<b>Date:</b>	
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## Submission Details:

The assessment task is due on trainer provided date. Any variations to this arrangement must be approved in writing by your assessor. Submit this document with any required evidence attached. See specifications below for details

### Performance objective

The candidate must demonstrate skills, knowledge and understanding and promote the use and implementation of innovative work practices to effect change, as states the units of competency **ICAPRG418A**, **ICAPRG503A**, **ICAPRG527A**. Throughout this program you are to demonstrate knowledge in:

- Australian Computer Society Code of Ethics.
- Federal and state or territory legislation and policy relevant to an IT environment relating to:  
Access and equity, copyright and intellectual property and OHS.
- Privacy.
- Organisational communication processes and procedures.
- Organisational requirements for customer service.

And skills in:

- Communication skills to liaise with internal and external personnel on ethical and privacy, operational and business-related matters.
- Learning skills to update personal ethical and privacy knowledge through professional development literacy skills to apply standards and legislation to policy and procedure development and monitoring.
- Planning and organisational skills to plan, prioritise and monitor own work.
- Research skills to gain and maintain current industry privacy and ethical information.
- Technical skills to perform application and system security and storage management.

## Assessment description:

You will undertake **computer based test** based on class lectures and activities in this Practical Activity.

## Procedure:

- 1 You will need to follow instructions below and address all activities required.
- 2 This is an individual activity where each candidate will be assessed individually;
- 3 Complete all activities and submit assessment evidence (including these papers) to your assessor the date specified above (see submission details).
- 4 Referencing : All findings from the internet or other sources must be referenced as per standards laid by APA referencing guide at: <http://www.usq.edu.au/library/help/referencing/apa>

## Specifications/Conditions:

Your assessor will be looking for evidence of:

- Analyse legislation and standards relating to professional conduct and privacy in the IT industry
- Contribute to the development of a code of ethics and monitor the workplace to ensure code of ethics is being applied and is appropriate
- Contribute to the development of a privacy policy and monitor the workplace to ensure the policy is being applied and is appropriate.
- Relevant organisational policies, legislation and standards documentation.
- Industry codes of practice.

## Assessment Details

### Units covered in this project:

ICTPRG503 Debug and monitor applications

### Problem Scenario

A company named Logic Peripherals Australia (LPA) has decided to invest in a new computer software package to manage the sales and stock of their computer peripheral line to rollout across their corporate network an internet web site. The new system they require will be a customised application to manage the following:

- Stock (Computer Peripherals)
- Sales & Invoicing
- eCommerce web site store with payment gateway

The project will be divided into three sections with the following user interfaces:

- **Desktop application**
  - This application will be used for internal intranet management of the system and will only be accessible on the corporate network or via VPN access. This interface will have full access to the system core with all features.
- **Mobile Application**
  - The mobile application will be used for external management of the system and will have limited access to only allow management of the stock, sales and invoicing, system administration level will not be available through this interface.
- **eCommerce web site store**
  - This is the end point interface for the customer to purchase products (computer peripherals) via the internet and will have no access to the system manage core.

All system data will need to be stored on a centralised database server that is accessible from all interfaces. Each section of the software package will need to be developed with a graphical user interface (GUI) and connect to the centralised database server.

A system administration section will be required to allow system administrators full access to the core system, only system administrators will have the required access level to manage system users and any other admin tasks available.

## Advanced Phase Development Schedule:

Alpha Testing Phase	
Week	Tasks
2	<p><b>E. Software Package Testing:</b></p> <p>Test Desktop application as follows:</p> <ol style="list-style-type: none"> <li>1. Perform general case testing of the application functions to determine if the application performs as to system requirements.</li> <li>2. Record you testing results on the supplied test case template.</li> </ol> <p>Test Mobile application as follows:</p> <ol style="list-style-type: none"> <li>1. Install mobile application onto an android device and execute or load from the development emulator.</li> <li>2. Test that splash screen loads on application execution and remains active for five seconds</li> <li>3. Observe that main activity loads the web application page login screen and that interface displays correctly.</li> <li>4. Perform general testing of the mobile application functions to determine if the application performs as to system requirements.</li> <li>5. Record you testing results on the supplied test case template.</li> </ol> <p>Test eCommerce web site:</p> <ol style="list-style-type: none"> <li>1. Perform general case testing of the application functions to determine if the application performs as to system requirements.</li> <li>2. Record you testing results on the supplied test case template.</li> </ol> <p><b>Important:</b> Each application needs a minimum of five test cases recorded on the supplied test case template.</p>

## Assessment Submission Details

This assessment requires the following evidence:

- The assessment cover sheet (first two pages of the document) filled in with:
  - Your Name
  - Student Number
  - Date
- All created documents/source code/reports for this assessment.
- A **zip** or **7z** compressed archive containing the completed cover sheet and all relevant assessment documentation for this assessment.

Submitted electronically via instructions from you assessor/instructor.