CANTERBURY
TECHNICAL INSTITUTE

ASSESSMENT

ICT50715
Diploma of Software Development

Intermediate Programming

Assessment Code:

DITS-PRG502-1

ICTPRG502 Manage a project using software management tools

Case Study and Written Questions

Candidate must fill this section:	
Candidate Name:	
Candidate ID:	
Privacy Release Clause:	"I give my permission for my assessment material to be used in the auditing, assessment validation & moderation Process"
Candidate Signature:	**Date:**

Assessment Completion Status:				(Trainer Use Only)
Attempt	**Satisfactory**	**Non-Satisfactory**	**Date**	**Assessor's Signature**
Initial attempt	☐	☐		
2nd attempt/*Re-assessment*	☐	☐		

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.

Full Name:		Signature:		Date:	

Submission Details:

The assessment task is due on the date given by the assessors. 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 of promote the use and implementation of innovative work practices to effect change, as states the unit of competency **ICTPRG502**. Throughout this program you are to demonstrate knowledge in:

- basic knowledge of:
    o project management
    o software development life cycle (SDLC)
    o software requirement specifications
    o version control.

And skills in:
- communication skills to interact with developers and stakeholders during the development cycle
- literacy skills to read and interpret software requirement specifications
- numeracy skills of basic maths for project planning
- planning and organisational skills to:
    o create project plan
    o implement software-management tools
- research skills to determine appropriate software-management tools
- Technical skills to use software-management tools.

Assessment description:

This assessment should be completed after you have successfully implemented your previous assessment on Rapid Application Development by building website for XYZ Cosmetics Pvt. Ltd. Below is the case scenario as provided in your previous assessment.

Procedure:

After your website is ready for deployment, it enters into the phase of validation and testing.

Specifications/Conditions:

- Internet
- project-management software
- source-control software
- specific tools and licences, depending on particular platform
- appropriate learning and assessment support when required
- Modified equipment for people with special needs.

Assessment Details

Case Study and Written Questions

Case Scenario

iPizza is a new shop open in Brisbane CBD and they want to get more customers. They need an online website (similar to pizza hut) where customers can see, customise and order a pizza and track their order status. The main requirement is that the website must be compatible with Android. Users also have an option to pay for the pizza through the website or they can pay later when pizza is delivering at their door steps. Website required user sign up if user chooses to pay through online payment gateway. Client also wants to involve in the project to make sure the progress of the project is according to their requirement. You are a project manager and you have team of 6 people who work on this project which comprises of 1 designer, 3 developers and 1 tester. The project will take 8-10 weeks and cost about $12000.

Your task is to perform the following:

1. Which software development methodology appropriate for this project and why?
   (Ex: some software development methodologies widely used in IT industry are: Agile, Joint application design, waterfall, RAD, Prototyping etc.)(ICAPRG502A 1.1)

2. Explain which project management software can be used for development and why?
(Ex: Some most popular project management software's are: dotProject, MS Project, Fast-track schedule, Teamwork etc.) (ICAPRG502A 1.2)

3. Explain how you can monitor project using project management software which you had chosen in question number 2? Justify your answer. (ICAPRG502A 3.1)

4. What does it mean by Source (Version) control? Explain which source control system you will use to manage the source code and version control of the software and how you deal with the conflicts if any arises? (Ex: Source control systems include but not limited to: CVS, MS Visual SourceSafe, and MVC etc.) (ICAPRG502A 1.3)

5. How you can make sure that the source code you had entered into the source control system software (which you had chosen into question 4) is correct and current. (ICAPRG502A 3.2)

6. Explain source control procedures for this project. Write at least 2. (ICAPRG502A 2.2)

7. What is collaborative environment? How you can create a collaborative environment for this project? Justify your answer. (ICAPRG502A 1.4, 2.3)

8. Which collaborative software you will use for this project and why? (Ex: Collaborative software's may include but not limited to: MS SharePoint, blogs, forums, wiki's etc.)
(ICAPRG502A 2.3)

9. Explain how you can monitor the collaborative environment you have created for this project is working accordingly and there is no conflict in the team as well as in the software. (ICAPRG502A 3.3)

10. Create a project plan which consist of the followings: (ICAPRG502A 2.1)
    a. Project objective
    b. Create a table and schedule project as per task, time and responsible persons.
    c. Define budget and timeframe of the delivery of the project.

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.