

# Assessment Tool – Information Template



ICA50711 Diploma of Software Development



**central**  
INSTITUTE OF TECHNOLOGY

ICAPRG502A Manage a Project using software management tools (D8017)

and ICAICT403A Apply software development methodologies (D7865)

## ASSESSMENT 1 Professionally manage a project

### Assessment Description:

You are required to demonstrate project management skills while working to complete the Rent-a-car project assessment work required for the following cluster units:

ICASAD505A Develop technical requirements for business solutions, and

ICAWEB501A Build a dynamic website.

### Assessment Method:

Portfolio of evidence

### Assessment Venue:

Classroom

### Assessment Time/duration:

This assignment may be completed during and outside of normal class time.

### Due Date:

Phase 1 of this assignment is due by the end of day on 29 April (Week 12).

Phase 2 of this assignment is due by the end of day on 10 June (Week 18).

### Which part of the unit is being assessed?

Elements 1, 2 and 3 of ICAPRG502A are being assessed. You are required to demonstrate the practical use of a project management tool, a collaboration tool and a source control tool.

Elements 1 (methodology selection), 2.1 (project plan) and 3 (apply methodology) of ICAICT403A are being assessed.

### Assessment Instructions:

This assessment needs to be delivered in two parts – phase 1 deliverables and phase 2 deliverables.

Submit the deliverables into the Blackboard assessment area of the appropriate Unit.

### Results and Appeals:

Please refer to the Central Institute of Technology website for information about the assessment process. The information can be found at [www.central.wa.edu.au](http://www.central.wa.edu.au). The path is; Current Students - Student Portal: Your Student Handbook – Your Studies, Assessments page 19.

### Assessment Marking Guide & Feedback

Please refer to related marking guide form.

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## Assessment Task –

### Tasks for Deliverable 1

#### Task 1.1: Develop a Baseline Project Plan

- You are required to develop a project plan using Microsoft Project for your Rent-a-car project.
- Assume that there is more than one human resource allocated to work on the project. Assign nominal hourly rates to each of these resources.
- Review a range of software development methodologies and choose one methodology that will be followed for this project. Write an explanation of why this methodology is suitable and why alternative methodologies were not selected. Indicate what resources (eg. Software tools or reference websites) will be used to support the methodology selected.
- Determine the Work Breakdown Structure (WBS) for your project, reflecting the phases and number of iterations of the chosen methodology. For each task, estimate how long it is likely to take and determine deadline dates for deliverables.
- Enter the following into the project plan: milestones, tasks, durations, dependencies, date constraints and deadlines. Show the resources assigned to work on tasks. Set up a calendar to reflect the work time availability of resources or alternatively set an appropriate unit allocation for each resource. Level the resource allocations if necessary.

#### Task 1.2: Set up a collaboration environment

- Set up the folder in Google Drive where you can store documents related to your project.
- Create or upload any documents (eg. requirements specification document, testing or defect log, project plan, methodology document) that are relevant to your project into the project folder.
- Grant viewing permissions to your lecturer ([ivonebennett@gmail.com](mailto:ivonebennett@gmail.com)) by sharing the folder (or files).

#### Task 1.3: Set up a source control repository

- Download, install and configure Git on your personal computer.
- Test that the software is correctly installed and configured by loading one or more plain text files into it, making a few changes to the files and committing those changes.

For deliverable 1, please submit the following into the Blackboard assessment area:

- For unit ICAPRG502A, submit:
  - your baseline project plan,
  - a link to the location of your Google Drive folder/document, and
  - a listing of the Git Log entries showing the changes that you have committed.
- For unit ICAICT403A, submit your written justification for the chosen methodology.

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## Tasks for Deliverable 2

### Task 2.1 Maintain the Project Plan

- Use your initial project plan to set up a project plan Baseline.
- Then update your project plan to show the current progress status of the work tasks. There will most likely be variations between planned and actual task durations/effort. The plan may also need to be adjusted if there have been any changes in scope, tasks, resource or unit allocations.
- At the end of the project, you should report on project costs and variances compared with the Baseline Project Plan.

### Task 2.2 Participate in using the collaboration tools

- Use the collaboration environment throughout the project to maintaining project documentation.
- You must prepare a Lessons Learnt document which outlines what you have learnt while implementing the project / SDLC methodology. Assess whether the chosen process was suitable and effective for this project. Also consider opportunities for improvement and make recommendations for conducting similar projects in future.

### Task 2.3 Use the source control repository for version control of your program code

- Set up a GitHub remote repository which will be the master repository for your project code.
- Synchronise your local Git repository with the GitHub repository.
- For each of the program modules that you develop, you need to check-in the program code into your local Git source control repository.
- At regular intervals, push your changes up to the GitHub repository.

For deliverable 2, please submit the following into the Blackboard assessment area:

- For unit ICAPRG502A, submit:
  - your updated project plan and variances report/spreadsheet,
  - a link to the location of your Google Drive folder/document, and
  - a link to your GitHub source control repository.
- For unit ICAICT403A, submit your Lessons Learnt document.