



COIT12208 ICT Project Management

Term 2 - 2023

Profile information current as at 06/12/2023 03:00 pm

All details in this unit profile for COIT12208 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

In this unit, you will learn key concepts of Information and Communication Technology Project Management from both a traditional waterfall and Agile perspective. You will apply project management principles and use project management software with the aim of delivering successful projects. Industry standards, quality assurance, professional ethics, social, cultural, and legal issues relevant to the theories and principles of project management will also be covered.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisite: COIT11226 Systems Analysis Anti-requisite: COIS13064 ICT Project Management

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 2 - 2023

- Brisbane
- Cairns
- Melbourne
- Online
- Rockhampton
- Sydney
- Townsville

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Presentation**

Weighting: 30%

2. **Online Quiz(zes)**

Weighting: 30%

3. **Written Assessment**

Weighting: 40%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Unit Evaluation

Feedback

Students expressed high satisfaction with the unit content and structure.

Recommendation

Continue to run the unit with the current style and format.

Feedback from Unit Coordinator self-reflection and students' verbal feedback

Feedback

Too much work for 15% in Assessment 2 Quiz 1.

Recommendation

Revise Assessment 2 Quiz 1 and reduce the number of questions.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Apply Agile project scoping, scheduling, and velocity management tools and procedures
2. Apply predictive project planning, scheduling, and resource management tools and procedures
3. Evaluate project status and recommend appropriate corrective action where necessary
4. Assess the ethical, social, cultural, and legal impacts of projects on diverse stakeholders.

Australian Computer Society (ACS) recognises the Skills Framework for the Information Age (SFIA). SFIA is in use in over 100 countries and provides a widely used and consistent definition of ICT skills. SFIA is increasingly being used when developing job descriptions and role profiles.

ACS members can use the tool MySFIA to build a skills profile at <https://www.acs.org.au/professionalrecognition/mysfia-b2c.html>

This unit contributes to the following workplace skills as defined by SFIA. The following version 7 SFIA codes are included:

- [Strategic planning](#) ITSP
- [Business analysis](#) BUAN
- [Project management](#) PRMG
- [Programme management](#) PGMG
- [Portfolio management](#) POMG
- [Change management](#) CHMG
- [Requirements definition and management](#) REQM
- [Information systems coordination](#) ISCO
- [Systems development management](#) DLMG

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Presentation - 30%	•			•
2 - Online Quiz(zes) - 30%		•	•	•
3 - Written Assessment - 40%	•	•	•	

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Communication	•			•
2 - Problem Solving	•	•	•	
3 - Critical Thinking	•	•	•	•
4 - Information Literacy				
5 - Team Work				
6 - Information Technology Competence	•	•	•	
7 - Cross Cultural Competence				
8 - Ethical practice				•
9 - Social Innovation				
10 - Aboriginal and Torres Strait Islander Cultures				

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Presentation - 30%	•	•	•			•				
2 - Online Quiz(zes) - 30%		•	•			•		•		
3 - Written Assessment - 40%		•	•							

Textbooks and Resources

Textbooks

There are no required textbooks.

Additional Textbook Information

Textbooks can be accessed online at the CQUniversity Library website. If you prefer your own copy, you can purchase either paper or eBook versions at the CQUni Bookshop here: <http://bookshop.cqu.edu.au> (search on the Unit code)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Microsoft Project
- Webcam and headset
- Access to Microsoft Visio
- Access to Microsoft Office
- Taiga server
- Node.js including JSHint, c8 and sloc

Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Rahat Hossain Unit Coordinator

m.hossain@cqu.edu.au

Schedule

1 Introduction - 10 Jul 2023

Module/Topic	Chapter	Events and Submissions/Topic
ICT project management concepts	<p>The weekly readings are available via the unit website:</p> <ul style="list-style-type: none">• Part 1 Introduction and Overview (Haugan 2010). Haugan, GT 2010. <i>Project management fundamentals: key concepts and methodology</i>, 2nd ed, Oakland, Berrett-Hoehler.• Pp. 26-42 of 2 Scrum and eXtreme programming (Hunt 2018). Hunt, A 2018. <i>PMI-ACP project management institute agile certified practitioner exam study guide</i>.• Pp. 115-128 of 4 Agile Initiation and Stakeholder Engagement (Hunt 2018)	

2 Agile - 17 Jul 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Agile scope, schedule and risk management

- Pp. 180-189 of 6 Agile Estimation and Planning (Hunt 2018)
- Pp. 218-223 of 7 Effective Team Performance on Agile Projects (Hunt 2018)

3 Predictive Scope & Schedule - 24 Jul 2023

Module/Topic	Chapter	Events and Submissions/Topic
Modelling of ICT scenarios in MS Project	• 5 Developing the Schedule (Gido 2018). Gido, J 2018. <i>Successful project management</i> . 7th ed., Cengage.	

4 Risks - 31 Jul 2023

Module/Topic	Chapter	Events and Submissions/Topic
Prioritisation of ICT risks and assessment of risk responses	• 4 Teams (Lientz & Larssen 2006). Lientz, BP & Larssen, L 2006. <i>Risk management for IT projects: how to deal with over 150 issues and risks</i> , Routledge.	Quiz 1 for Assessment 2 is now available. It will be open starting from Monday of Week 4 (31/07/2023).

5 Quality - 07 Aug 2023

Module/Topic	Chapter	Events and Submissions/Topic
Assessment using ICT metrics, Pareto charts and Fault Tree Analysis	• 8 Project Quality Management (PMI 2013). PMI 2013, <i>Software extension to the PMBOK guide</i> . 5th edn, Project Management Institute.	ADAPTIVE PM PRESENTATION Due: Week 5 Friday (11 Aug 2023) 11:00 pm AEST

Non-teaching Week - 14 Aug 2023

Module/Topic	Chapter	Events and Submissions/Topic
	Non-teaching week	

6 Predictive Resourcing, COCOMO, PERT & Monte Carlo - 21 Aug 2023

Module/Topic	Chapter	Events and Submissions/Topic
Improving the estimation of ICT task durations	• No specific chapter from any specific textbook. Custom made lecture slides are available on the Moodle unit website where the references are provided at the end of the lecture slides.	Assessment 2 - Quiz 1 Due <ul style="list-style-type: none"> • Due Week: Week 6 • Due Day: Sunday • Due Time: 11.00 PM • Date: 27/08/2023 11.00 PM

7 Predictive Costs including Earned Value Management - 28 Aug 2023

Module/Topic	Chapter	Events and Submissions/Topic
Evaluation of a project's schedule and costs	• 7 Determining Costs, Budget and Earned Value (Gido 2018)	Quiz 2 for Assessment 2 is now available. It will be open starting from Monday of Week 7 (28/08/2023).

8 Costs & timelines of Agile projects; Lean & Kanban - 04 Sep 2023

Module/Topic	Chapter	Events and Submissions/Topic
Costs & timelines of Agile projects; Lean & Kanban	• 3 Key Aspects of Additional Agile Methodologies (Hunt 2018)	

9 Stakeholders & Organisational Structures - 11 Sep 2023

Module/Topic	Chapter	Events and Submissions/Topic
Designing development organisational structures based on ICT systems architectures	• No specific chapter from any specific textbook. Custom made lecture slides are available on the Moodle unit website where the references are provided at the end of the lecture slides.	Quiz 2 <ul style="list-style-type: none"> • Due Week: Week 9 • Due Day: Sunday • Due Time: 11.00 PM • Date: 17/09/2023 11.00 PM

10 Managing Risk - 18 Sep 2023

Module/Topic	Chapter	Events and Submissions/Topic

Managing Risk

- 8 Managing Risk (Gido 2015). Gido, J 2015. *Successful project management*. 6th ed., Cengage.

11 Closing the Project - 25 Sep 2023

Module/Topic	Chapter	Events and Submissions/Topic
Closing the Project	• 9 Closing the Project (Gido 2015). Gido, J 2015. <i>Successful project management</i> . 6th ed., Cengage.	

12 Unit Review/Industry Guest Speaker Session - 02 Oct 2023

Module/Topic	Chapter	Events and Submissions/Topic
Unit Review OR Industry Guest Speaker Session	• Unit Review OR Industry Guest Speaker Session	Complete the Unit evaluation. Click the "Have your say" red button on the Moodle website. Case Study Due: Week 12 Friday (6 Oct 2023) 11:00 pm AEST

Review/Exam Week - 09 Oct 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Exam Week - 16 Oct 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Term Specific Information

Unit Coordinator: Rahat Hossain
Building 30/1.12, Rockhampton Campus
Email: m.hossain@cqu.edu.au (Preferred Contact)

Assessment Tasks

1 ADAPTIVE PM PRESENTATION

Assessment Type

Presentation

Task Description

Each student's assignment will be assessed individually. The provided version of the assignment is condensed, and the complete version can be found on the unit website.

Objectives

The objective of this assignment is to provide you with practical experience in adaptive project management. Your role will be that of a project manager overseeing an adaptive ICT project. You will be responsible for a range of tasks, including but not limited to:

- Create and maintain a product backlog
- Develop a sprint plan
- Manage risk issues and
- Present a sprint review.

The project is scheduled to be completed in 2 sprints. The first sprint has already been finished, and now it's time to review it and plan for the second sprint.

1. Create a plan to reflect the project's progress

At the end of Sprint 1, you will receive a project plan and development files for an ICT project. Your task is to use the designated project management tool to create a plan that accurately reflects the progress made so far.

2. Create Sprint 2 Plan

You need to create a plan for Sprint 2.

3. Present Sprint 1 Review and Sprint 2 Plan

You will present a review of Sprint 1 and your Sprint 2 plan.

You will have 10-15 minutes to present your project. You must record and submit your presentation and the taiga project file (*.json). Your recorded video should be framed to include the presenter, your audience (if any), and your desktop.

Plagiarism

Sharing ideas about project management concepts and techniques between individuals is encouraged. Any ideas you reuse should be referenced. Sharing project management files or copying, for example, user stories, subtasks, issues, or controls, between individuals will be considered plagiarism. If you doubt whether you can share something, first obtain email consent from your lecturer.

This assignment will be submitted online through the Moodle unit website.

The full specification for this assessment and the marking criteria are available on the Moodle unit website.

Assessment Due Date

Week 5 Friday (11 Aug 2023) 11:00 pm AEST

All submissions are due by the deadline.

Return Date to Students

Week 7 Friday (1 Sept 2023)

Within 2 weeks of the due date or within 2 weeks of submission (whichever is the later)

Weighting

30%

Assessment Criteria

For this task, you will be assessed individually. Your work will be evaluated based on how well you implement and present various elements, including Backlog, User Stories, Sprint Plans, Taskboard, Issues, Individual Presence, and Presentation Content. You can find a comprehensive marking template on the unit website along with the assignment details.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Please retrieve your project plan from the project management tool and upload it to the unit website. Remember to include either a video or a link to your video, as well as the taiga project file (*.json). Please note that plagiarism is strictly prohibited and will be handled in accordance with University policy. Any incomplete submissions, such as those with insufficient permissions or corrupt files, may not be graded or may receive a late penalty. Students who do not present will not receive any marks for the presentation portion of the assessment.

Learning Outcomes Assessed

- Apply Agile project scoping, scheduling, and velocity management tools and procedures
- Assess the ethical, social, cultural, and legal impacts of projects on diverse stakeholders.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Technology Competence

2 Quizzes

Assessment Type

Online Quiz(zes)

Task Description

For the complete version of the assignment, kindly check out the unit website as this is just a summarized version.

Time Management

To prepare for Quiz 1, kindly complete all the activities in the unit, including those in Week 4. You can take Quiz 1 once you have finished the Week 5 activities. We suggest using the non-teaching week between Weeks 5 and 6 to put the finishing touches on Quiz 1.

To prepare for Quiz 2, kindly make sure to complete all the activities for the unit, including Week 7. Only after finishing the Week 8 activities, you can attempt Quiz 2. It's recommended that you use the weekend after Week 8 to perfect Quiz 2.

Objectives

The purpose of this task is to provide you with hands-on experience in quality and risk management, as well as predictive project management. Your task is to carry out project management duties for a series of project scenarios and simulations.

Task Description

You will manage project constraints such as quality, risk, scope, schedule, human resources, and stakeholders using, for example, MS Project and MS Excel. You will create recommendations to manage or correct project issues proactively. You will complete scenarios such as the following:

- Model scenarios using MS Project
- Manage to schedule using the Critical Path Method (CPM).
- Manage quality using Fault Tree Analysis (FTA)
- Create and interpret control charts
- Calculate Risk Leverage Factors to assess the cost of risk responses
- Calculate Expected Monetary Values (EMV, not EVM) to assess risk responses
- Calibrate a COCOMO model to predict the duration of a project
- Apply PERT and Monte Carlo to understand a project's duration better and
- Manage schedule and costs with Earned Value Management (EVM) techniques

The scenarios will be distributed to you in two quizzes.

Quiz 1

- Attempts: Although multiple submissions are possible; only the last submission of Quiz 1 will be marked.
- Feedback: You will receive feedback for Quiz 1 two weeks after the due date.
- Availability: Quiz 1 will be available by Week 4.
- Weight: Quiz 1 is worth 15% of the unit.

Quiz 2

- Attempts: You have unlimited attempts at Quiz 2 until the deadline; only the last submission of Quiz 2 will be marked.
- Feedback: Quiz 2 feedback is provided after each submission of the quiz.
- Availability: Quiz 2 will be available by Week 7.
- Weight: Quiz 2 is worth 15% of the unit.

Plagiarism

Please note that this assignment will be assessed individually, and any sharing of files related to this task will be considered plagiarism. Please ensure that all submissions are original, as they will be thoroughly checked for plagiarism.

Number of Quizzes

2

Frequency of Quizzes

Other

Assessment Due Date

Please note that the quizzes have varying due dates. Quiz 1 must be completed by Sunday of Week 6 at 11:00 PM, while Quiz 2 is due by Sunday of Week 9 at the same time.

Return Date to Students

The feedback for Quiz 1 will be given back in Week 8. As for Quiz 2, you will receive feedback after every submission. Please note that both quizzes' feedback and marks may change during the moderation process.

Weighting

30%

Assessment Criteria

Your assignment will be assessed individually, with evaluation based on various aspects (see the following table). The majority of criteria will be weighted similarly, so refer to the quizzes for question weights. However, certain criteria, such as those related to managing scope and schedule in **MS Project**, and **utilising EVM for cost management**, will carry more weight.

Criteria	Description
Calculating risk leverage factors in assessing the cost-effectiveness of risk responses	Correct calculations

Create or interpret a decision tree and calculate expected monetary values to assess risk response options

Correct analysis of the scenario. Correct calculations. Appropriate interpretation of results.

Focus quality management through Fault Tree Analysis

Correct analysis of the scenario and calculations

Identify issues with testing and development processes by calculating defect rates

Appropriate interpretation and recommendations. Correct calculations.

Collect ICT project metrics such as defect rates, SLOC and cyclomatic complexity

Correct metrics collected and identified.

Focus code reviews through analysis of cyclomatic complexity

The correct interpretation of the scenario and general and specific function recommendations.

Predict the number of escaped bugs in a system

The correct interpretation of the scenario and correct calculations.

Develop or interpret run charts and control charts to analyse trends in project metrics, e.g. defect rates and requirements volatility

Appropriate interpretation and recommendations. Recommendations consider the context of the project. Trend lines only include relevant data. Correct calculations. Charts have appropriate titles, legends and units. Charts use correct data.

Focus quality management by developing and interpreting Pareto charts

Appropriate interpretation and recommendations. The analysis is specific to the generated results. Correct calculations. Charts have appropriate titles, legends and units. Charts use correct data.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

To fulfill the quiz requirements, kindly complete them via the unit website. You can upload necessary files and provide written responses within the quizzes.

Learning Outcomes Assessed

- Apply predictive project planning, scheduling, and resource management tools and procedures
- Evaluate project status and recommend appropriate corrective action where necessary
- Assess the ethical, social, cultural, and legal impacts of projects on diverse stakeholders.

Graduate Attributes

- Problem Solving
- Critical Thinking
- Information Technology Competence
- Ethical practice

3 Case Study

Assessment Type

Written Assessment

Task Description

This particular assignment will be evaluated individually, and it accounts for 40% of the overall marks for this unit. The main objective of this assessment is for you to provide a response to a case study, which you can find the details of, along with the task description and requirements, on the unit website. Should you have any inquiries regarding this assessment, please seek assistance from your local Lecturer, Tutor, or Unit Coordinator.

Submission: Online - Individual

Assessment Due Date

Week 12 Friday (6 Oct 2023) 11:00 pm AEST

Please ensure that all submissions are turned in by the designated deadline.

Return Date to Students

Exam Week Friday (20 Oct 2023)

You have a two-week window to submit your work, either from the due date or from the date of submission (whichever

comes later).

Weighting

40%

Assessment Criteria

The assessment for this assignment is done on an individual basis. The criteria for evaluation encompasses various aspects, including the quality of answers provided for the Case Study questions, report formatting, and referencing mechanics. For more information, a comprehensive marking template will be accessible on the unit website alongside the assignment details.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

To submit your assessment, simply click on the appropriate submission link available on the Moodle unit website.

Learning Outcomes Assessed

- Apply Agile project scoping, scheduling, and velocity management tools and procedures
- Apply predictive project planning, scheduling, and resource management tools and procedures
- Evaluate project status and recommend appropriate corrective action where necessary

Graduate Attributes

- Problem Solving
- Critical Thinking

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem