



ENMM20024 Asset Management Systems

Term 2 - 2022

Profile information current as at 13/12/2025 03:55 pm

All details in this unit profile for ENMM20024 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

This unit will introduce you to asset management concepts and systems meeting Asset Management Standard ISO5000 requirements. The assets referred to are physical assets such as fixed and mobile plant, machinery and infrastructure used in asset-intensive industries. You will learn how organisations manage their assets and asset systems and provide examples of financial concepts and techniques used in asset management. You will identify asset management functions and develop a life cycle plan for an asset in an organisation, as well as apply financial principles in an asset management context. You will also consider the key risks associated with assets.

Details

Career Level: *Postgraduate*

Unit Level: *Level 8*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisite: ENMM 20023 Introduction to Asset and Maintenance 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 - 2022

- Online

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 Postgraduate 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. **Written Assessment**

Weighting: 30%

2. **Written Assessment**

Weighting: 40%

3. **Written Assessment**

Weighting: 30%

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 Have your say survey

Feedback

More feedback on Assignment 1 will help in preparing for Assessment 2, as both are connected to each other.

Recommendation

The lecturer will be encouraged to continue reviewing and updating lecture materials and to provide more feedback on Assessment 1 well before the second assessment due date. Assignment 2 requirements should be clearly explained in the marking rubrics, as well as in the tutorial class.

Feedback from Student feedback

Feedback

The learnings from unit assignments can be directly applicable to the workplace.

Recommendation

The assignment structure will be maintained and improved where possible to meet the industry requirements.

Feedback from Student's feedback

Feedback

Students appreciated the industry experience and knowledge of the teaching staff.

Recommendation

The lecturer will be appreciated for his industry focus and will also be encouraged to share more case studies and his own experiences in the class.

Unit Learning Outcomes

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

1. Identify and discuss asset management functions.
2. Develop a life cycle plan for an asset in an organization supported by information and data management plan.
3. Apply financial concepts and techniques in an asset intense organization through a financial management plan (for assets).
4. Identify and analyze the key risks associated with assets in an assets intense organization.
5. Demonstrate effective leadership with senior management team in developing the Strategic Asset Management Plan (SAMP) applicable for your organization.

n/a

Alignment of Learning Outcomes, Assessment and Graduate Attributes

 N/A Level	 Introductory Level	 Intermediate Level	 Graduate Level	 Professional Level	 Advanced Level
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Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Written Assessment - 30%	•	•			
2 - Written Assessment - 40%	•	•	•	•	•
3 - Written Assessment - 30%			•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Knowledge					
2 - Communication					
3 - Cognitive, technical and creative skills					
4 - Research					
5 - Self-management					
6 - Ethical and Professional Responsibility					
7 - Leadership					
8 - Aboriginal and Torres Strait Islander Cultures					

Textbooks and Resources

Textbooks

ENMM20024

Supplementary

Physical Asset Management

Authors: Hastings, Nicholas Anthony John

Springer-Verlag

London , UK

ISBN: 978-1-84882-751-6

Binding: eBook

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- ebook-Physical Asset Management 2015: With an Introduction to ISO55000 , Author: Nicholas Anthony Jhon Hastings
- Learning guide in the form of a Moodle book uploaded on the moodle web page
- Online lecture sessions via Zoom
- Students are required to have necessary equipment/accessories to attend online Zoom or Microsoft sessions.

Referencing Style

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

For further information, see the Assessment Tasks.

Teaching Contacts

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Schedule

Week 1 - 11 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Course Overview	Text book Chapters - 1.	Online weekly Zoom lecture and tutorial sessions schedule will be announced by the lecturer via Moodle web page of this unit/emails. Please visit Moodle website for announcement. Quizzes, book sections 1.12.1 and 1.12.2

Week 2 - 18 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
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Asset Capability Delivery	Text book Chapters - 4.	Discussion forum activities and Zoom session. Tutorial Activities 1 and 2 on lecture file
Week 3 - 25 Jul 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Concept Proposal - Assgt 1 Intro.	Text book Chapters - 4.	Discussion forum activities and Zoom session. Assignment 1 released.
Week 4 - 01 Aug 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Information and Data Management	Text book Chapters - 13,22,28.	Discussion forum activities on Assignment -1 in Zoom session. Tutorial Exercises 1 and 2 on lecture file. Census date is Tuesday the 2 August . After this you will not be able to drop or withdraw this unit.
Week 5 - 08 Aug 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Asset Fleet Planning	Text book Chapters - 10.	Case study exercise on lecture file.
Vacation Week - 15 Aug 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Vacation week		
Week 6 - 22 Aug 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Module 3- Financial Methods	Text book Chapters - 5, 8, 23.	Case studies 1 and 2 on lecture file Assignment 1 - Concept Proposal Due: Week 6 Tuesday (23 Aug 2022) 11:45 pm AEST
Week 7 - 29 Aug 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Business Case - Assignment 2 Intro.	Text book Chapters - 6, 7.	Assignment 2 released.
Week 8 - 05 Sep 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Cost-Benefit Analysis	Text book Chapters - 14, 24.	Cost-benefit case study on lecture file.
Week 9 - 12 Sep 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Asset Budgeting	Text book Chapters - 8, 12, 19.	Long River case Study on lecture file.
Week 10 - 19 Sep 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Assignment 3 Intro. & Strategic Asset Management Plan	Text book Chapters - 11, 29.	Assignment 3 released.
Week 11 - 26 Sep 2022		
Module/Topic	Chapter	Events and Submissions/Topic

Asset Management in the Organisation

Text book Chapters - 2, 7.

Strategic Plan Exercise on lecture file

Assignment 2 - Business Case Due: Week 11 Monday (26 Sept 2022) 11:45 pm AEST

Week 12 - 03 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
Revision		Work on Assignment 3.

Review/Exam Week - 10 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
		Assignment 3 - Review Topics Due: Review/Exam Week Monday (10 Oct 2022) 11:45 pm AEST

Exam Week - 17 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
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Assessment Tasks

1 Assignment 1 - Concept Proposal

Assessment Type

Written Assessment

Task Description

The aim of this assignment is for you to develop your ability to initiate a proposal for an asset-based development or improvement related to your workplace (or similar) at the concept stage. The proposal should present information which would support a management decision as to whether to put further effort into developing the concept. Write an outline of the proposal.

Assessment Due Date

Week 6 Tuesday (23 Aug 2022) 11:45 pm AEST

Return Date to Students

Week 8 Friday (9 Sept 2022)

Weighting

30%

Assessment Criteria

Marking Criteria

- Clarity of problem definition and project aims
- Concept level description of potential developments with benefits and options
- Structure, presentation, terminology, grammar and referencing.
- Identification of any procedures or documents relevant to advancing the proposal within your organization.

Referencing Style

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

Submission

Online

Submission Instructions

The required standard file name format, Example -John_Smith_ENMM20024_Ass1doc

Learning Outcomes Assessed

- Identify and discuss asset management functions.
- Develop a life cycle plan for an asset in an organization supported by information and data management plan.

2 Assignment 2 - Business Case

Assessment Type

Written Assessment

Task Description

The aim of this assignment is to develop your ability to create and present a business case for an asset management development in your organisation, or a similar setting. This assignment concentrates on the justification for the project in financial and/or cost-benefit terms, or other compelling reasons e.g. regulatory requirements. You are required to submit a business style report and a supporting PowerPoint presentation for this assignment.

Assessment Due Date

Week 11 Monday (26 Sept 2022) 11:45 pm AEST

Return Date to Students

Review/Exam Week Friday (14 Oct 2022)

Weighting

40%

Assessment Criteria

Marking Criteria

It is recommended that you read beyond the course materials to complete assessment items. Your submission for this assessment will be evaluated by the following criteria.

- Effectiveness of the Executive summary
- Statement of planning assumptions and options
- Preferred option description
- Financial analysis and/or cost benefit analysis
- General support for the rationale of the project from a business viewpoint, including risk
- § Structure, presentation, terminology, grammar and referencing.

For the PowerPoint presentation:

- § Good business communication practices are to be evident.
- § Not too much detail on slides.
- § Coherent and logical presentation directed to a senior management level.
- § Accurate summary of project aims, issues and plans
- § Structure, presentation, terminology, grammar and referencing.

Referencing Style

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

Submission

Online

Submission Instructions

The required standard file name format, Example -John_Smith_ENMM20024_Ass2.doc

Learning Outcomes Assessed

- Identify and discuss asset management functions.
- Develop a life cycle plan for an asset in an organization supported by information and data management plan.
- Apply financial concepts and techniques in an asset intense organization through a financial management plan (for assets).
- Identify and analyze the key risks associated with assets in an assets intense organization.
- Demonstrate effective leadership with senior management team in developing the Strategic Asset Management Plan (SAMP) applicable for your organization.

3 Assignment 3 - Review Topics

Assessment Type

Written Assessment

Task Description

This assignment is aimed at assessing the student's overall understanding of Asset Management topics. Students are required to read the course notes and present responses to the questions asked in this assignment. Students' responses should reflect their own interpretation and workplace experience, as well as learning through articles and books, including the recommended text book of this unit.

Answers can draw directly on the course notes, which can be given as a single reference. Where other sources are quoted, the relevant references should be given.

Assessment Due Date

Review/Exam Week Monday (10 Oct 2022) 11:45 pm AEST

Return Date to Students

Exam Week Friday (21 Oct 2022)

A delay in marking is expected. Marks awarded for the assessment will not be final as these are subjected to moderation.

Weighting

30%

Assessment Criteria**Marking Criteria**

- § Introduction and background indicating knowledge of topic
- § Good business communication practices are to be evident.
- § Coherent and logical presentation directed to a senior management level.
- § Structure, presentation, terminology, grammar and referencing.

Referencing Style

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

Submission

Online

Submission Instructions

The required standard file name format, Example -John_Smith_ENMM20024_Ass3.doc

Learning Outcomes Assessed

- Apply financial concepts and techniques in an asset intense organization through a financial management plan (for assets).
- Identify and analyze the key risks associated with assets in an assets intense organization.
- Demonstrate effective leadership with senior management team in developing the Strategic Asset Management Plan (SAMP) applicable for your organization.

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