



ENMM20023 *Introduction to Asset and Maintenance Management*

Term 2 - 2022

Profile information current as at 25/04/2024 03:36 pm

All details in this unit profile for ENMM20023 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 is designed to introduce students to maintenance strategies, philosophies and procedures, including the basic principles of asset management systems. Students will investigate and report on key concepts relating to asset and maintenance management in their organisation. They will analyse causes and develop solutions to asset and maintenance management problems and recognise and apply quality control procedures and quality assurance systems. This unit also helps students to develop the multi-literacy skills they will require to be a successful learner.

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

There are no requisites for this unit.

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).

Residential Schools

This unit has a Optional Residential School for distance mode students and the details are:

Click here to see your [Residential School Timetable](#).

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. **Presentation and 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 Teaching Evaluation

Feedback

A newly enrolled student particularly enjoyed the personal support, guidance and advice provided, which made it easy to follow and understand.

Recommendation

Good practices will be maintained and improved.

Feedback from SUTE

Feedback

The assignment sheets for each assessment changed weeks after they were given to us.

Recommendation

Assessments and marking rubrics will be peer-reviewed and finalised before uploading on Moodle.

Feedback from SUTE

Feedback

Very good course. The flexibility is a highlight, being able to swap around the lecture times to suit public holidays is great.

Recommendation

Lectures and tutorials are recorded and posted on moodle soon after the Zoom session. Flexibility in unit delivery will be maintained as much as possible.

Unit Learning Outcomes

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

1. Develop multi-literacy skills required to become a successful learner, including reflection, communication, referencing and presentation skills
2. Investigate and report on the key concepts relating to asset and maintenance management in your organisation as outlined in asset management policy
3. Explain the management of maintenance from a business centred perspective
4. Analyse the causes and develop solutions to asset and maintenance management problems
5. Apply asset and maintenance management principles to improve organisational effectiveness as a part of the continuous improvement plan
6. Recognise and apply quality control procedures and quality assurance systems required in a quality management plan.

N/A

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Written Assessment - 30%	•	•	•			
2 - Written Assessment - 40%	•	•	•	•	•	
3 - Presentation and Written Assessment - 30%				•		•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
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

There are no required textbooks.

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Online lectures via zoom
- Recorded lectures

Referencing Style

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

For further information, see the Assessment Tasks.

Teaching Contacts

Neamul Khandoker Unit Coordinator

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Subhash Sharma Unit Coordinator

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Schedule

Week 1 - 11 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Module 2- Introduction to maintenance	Study all chapters and practice self check activities of this module. Read this module before the class.	<ol style="list-style-type: none">1. Check moodle webpage for scheduled online lectures and introduce yourself to the class via online/discussion forum.2. An overview of Maintenance and unit as a whole will be discussed in the lecture class.3. Please keep your two evenings free in the next week for online Residential school. Days and time details will be announced on the moodle webpage of this unit. Attendance is highly recommended. Lecturer will explain the details.4. Any class falling on the holiday will be moved to the next day until an alternate date is announced.

Week 2 - 18 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
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Module 1- Introduction to University,
Study & Writing Skill

Study all chapters and practice self check activities before attending the Residential school.

Online Residential School will be held this week in two blocks on two different evenings. It is important for all students to know the key persons, university systems, important links, resources for attempting assignments and learning key academic writing skills. Further details will be available on the moodle website of this unit.
Don't miss this event.

Week 3 - 25 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Module 4- Principles of Management	Study all chapters, practice self check activities. Collect information for assignment analyse it and prepare assignment.	Lecture will be followed by an Overview of Assignment 1. Practice on developing a continuous improvement plan will be a Tutorial /class activity.

Week 4 - 01 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Revision of Module 1, 2 and 4	Study all chapters and practice self check activities and Finalize Assignment 1.	Keep working on developing a Continuous improvement plan and discuss Assignment 1 questions. Assignment is due on Monday next week. Academic Learning Centre (ALC) Lecture- Tips for writing assignment by ALC Lecturer. This Tuesday is the Census Date, you cannot drop this unit without financial penalty after this date.

Week 5 - 08 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Module 3- Introduction to Asset Management	Study all chapters and practice self check activities	Lecture followed by Tutorial and discussion on Assignment 2 overview. Assignment 1 Due: Week 5 Monday (8 Aug 2022) 11:59 pm AEST

Vacation Week - 15 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Vacation		NO TEACHING THIS WEEK

Week 6 - 22 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
An Overview of ISO 55000 Suite of Standards.	Study asset management suite of ISO standards from Nick Hastings book, Chapter 29. or access Standards from CQU Library.	Zoom Lecture session on the topic. Followed by questions relevant to Assignment 2. Tutorial activity- access different Asset Management organizations within Australia and outside including their activities.

Week 7 - 29 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Basic Principles and models of Asset Management	Refer AMBOK from Asset Management Council Website.	Ask questions about Assignment 2 and practice on developing an Asset Management Policy statement in the class as a tutorial activity.

Week 8 - 05 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Module 5- Financial analysis and maintenance management Module 1-5 revise	Study all chapters of the module and practice self check activities.	Study module 5 at home and ask questions in the class. Keep working on Assignment 2 as a class activity, assignment is due Monday next week. ALC Lecture- Feedback on assignment writing

Week 9 - 12 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Module 6- Maintenance Management Techniques - Analytical	Study Module 6, practice self check activities finalize Assignment 2. Assignment 2 is due on Monday. Study all chapters, practice self check activities and start collecting information for Assignments 3	Lecture on Quality management concepts. After the lecture class an over view of Assignment 3 and a discussion on Quality improvement plan- A case study. Assignment 2 is due on Monday ask any last minute question on Assignment 2. Assignment 2 Due: Week 9 Monday (12 Sept 2022) 11:45 pm AEST

Week 10 - 19 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Module 7- Maintenance management techniques - Statistical	Study all chapters and revise Chapter 1, practice self check activities, analyze	Lecture followed by discussion on assignment questions as well as quality improvement plan. Practice on PowerPoint slides preparation.

Week 11 - 26 Sep 2022

Module/Topic	Chapter	Events and Submissions/Topic
Module 8- Maintenance Quality, Safety & Environment	Analyse information, finalise assignment and prepare outlines of Power Point slides	Lecture followed by discussion on Assignment 3 questions and quality improvement plan. Health and Safety in industry (legislation/s),

Week 12 - 03 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
Revision of all modules	Plan a Power Point slides for Assignment 3.	Over view of Quality Management and OHS. After the lecture ask questions about Assignment 3. Assignment is due Monday, next week.

Review/Exam Week - 10 Oct 2022

Module/Topic	Chapter	Events and Submissions/Topic
Assignment week	Assignment 3 is due this week	Assignment 3 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

Assessment Type
Written Assessment

Task Description

Details of the assessment will be available on the unit Moodle site. This assessment is based upon the Modules 1, 2 and 4 of the Unit Learning-guide. In answering the questions, you will relate the theoretical processes you have read about maintenance in the learning material to your own organization or facility. A question will be focussed on the development of a continuous Improvement plan for an activity or a process within your own organisation.

Assessment Due Date

Week 5 Monday (8 Aug 2022) 11:59 pm AEST

Return Date to Students

Week 7 Monday (29 Aug 2022)

It is expected that marked assessment will be returned within 2 weeks of the due date when submitted on time.

Weighting

30%

Assessment Criteria

This is a criterion - based assessment item. It is highly recommended that you read beyond the unit materials to complete assessment items. A detailed marking guide is available on the unit Moodle site. Your submission for this assessment will be evaluated according to the following criteria:

- Demonstration of knowledge and understanding of concepts
- Evidence of research beyond own experience and unit material
- Clarity of expression, including use of terminology, ease of reading, spelling and grammar, orderly and logical presentation and use of diagrams to illustrate points
- Quality of technical presentation including neatness, appropriate use of Figures and Tables
- Use of correct and accurate referencing techniques
- Assignment word count limit will apply
- Marks will be allocated using a marking scheme that will be available on the moodle website.

Referencing Style

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

Submission

Online

Submission Instructions

Assignments must be submitted electronically (in "MSWord" format NOT pdf) in Moodle. When uploading your assignment on Moodle, ensure you use the following file format, Example - 'Albert Jones_s024789

Learning Outcomes Assessed

- Develop multi-literacy skills required to become a successful learner, including reflection, communication, referencing and presentation skills
- Investigate and report on the key concepts relating to asset and maintenance management in your organisation as outlined in asset management policy
- Explain the management of maintenance from a business centred perspective

2 Assignment 2

Assessment Type

Written Assessment

Task Description

Details of the assessment will be available on the unit Moodle website. This assessment is based upon the unit Learning-guide modules 1,3, 5, and an overview of suite of ISO 55000 standard. Questions are based on the basic principles of asset management that will relate to your own workplace. You will also be required to develop an Asset Management policy for your own organisation as part of the assignment.

Marks have been assigned to each part of the question, you must read question carefully and answer each part. Be careful a wordcount limit will apply.

Assessment Due Date

Week 9 Monday (12 Sept 2022) 11:45 pm AEST

Return Date to Students

Week 11 Monday (26 Sept 2022)

It is expected that marked assessment will be returned within 2 weeks of the due date when submitted on time.

Weighting

40%

Assessment Criteria

This is a criterion - based assessment item. It is highly recommended that you read beyond the unit materials to complete assessment items. A detailed marking guide is available on the unit Moodle site. Your submission for this assessment will be evaluated according to the following criteria:

- Demonstration of knowledge and understanding of concepts
- Evidence of research beyond own experience and unit material
- Clarity of expression, including use of terminology, ease of reading, spelling and grammar, orderly and logical
- Presentation and use of diagrams to illustrate points
- Quality of technical presentation including neatness, appropriate use of Figures and Tables
- Use of correct and accurate referencing techniques
- Assignment word count will apply
- your statements must be supported by a reliable reference
- Marks will be allocated using a marking scheme that will be available on the moodle website.

Referencing Style

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

Submission

Online

Submission Instructions

Assignments must be submitted electronically (in "MSWord" format NOT pdf) in Moodle. When uploading your assignment on Moodle, ensure you use the following file format, Example - 'Albert Jones_s024789_ENMM20023_Assignment 1'.

Learning Outcomes Assessed

- Develop multi-literacy skills required to become a successful learner, including reflection, communication, referencing and presentation skills
- Investigate and report on the key concepts relating to asset and maintenance management in your organisation as outlined in asset management policy
- Explain the management of maintenance from a business centred perspective
- Analyse the causes and develop solutions to asset and maintenance management problems
- Apply asset and maintenance management principles to improve organisational effectiveness as a part of the continuous improvement plan

3 Assignment 3

Assessment Type

Presentation and Written Assessment

Task Description

Details of the assessment will be available on the unit Moodle website. This assessment is based upon the unit Learning-guide modules 1, 6, 7 and 8. In answering the questions, you will relate the theoretical processes you have read about in the learning material to your own organization or facility. Quality management in maintenance and Health and safety in industry including knowledge of legislation used in your own organisation will be the main focus of this assignment. You will be required to improve a process or event by using appropriate quality management tools used in maintenance . Marks have been assigned to each part of the question, you must read question carefully and answer each part. Remember, wordcount limit will apply in this assignment also. This assignment also requires you to prepare a set of PowerPoint slides to assess your communication skills.

Assessment Due Date

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

Return Date to Students

Exam Week Friday (21 Oct 2022)

Assignment return dates are tentative, marks will be posted only after the approval of School committee meeting

Weighting

30%

Assessment Criteria

This is a criterion-based assessment item. Please note that it is highly recommended that you read beyond the unit materials to complete assessment items. Your submission will be evaluated by the

following criteria:

- Selection of problem, description of problem and supporting evidence.
- Plan for the solution of the problem, including selection of relevant tools and techniques and use of resources.
- Analysis of the problem.
- development of the solution to improve the quality of the event or process
- Quality of technical presentation including neatness of presentation, appropriate use of figures and tables and referencing.
- Marks will be allocated for PowerPoint slides
- Knowledge of a health and safety related legislation used in your organisation, its purpose source and currency

Marks will be allocated using a marking scheme that will be available on the moodle website.

Referencing Style

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

Submission

Online

Submission Instructions

Assignments must be submitted electronically (in "MSWord" format NOT pdf) in Moodle. When uploading your assignment on Moodle, ensure you use the following file format, Example - 'Albert Jones_s024789_ENMM20023_Assignment 1'.

Learning Outcomes Assessed

- Analyse the causes and develop solutions to asset and maintenance management problems
- Recognise and apply quality control procedures and quality assurance systems required in a quality management plan.

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