



ENEP12008 *Engineering Leadership*

Term 2 - 2020

Profile information current as at 19/09/2024 09:23 am

All details in this unit profile for ENEP12008 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

As a student in the final year of your Bachelor of Engineering course, you will identify and analyse leadership and engineering management techniques applied within industry-based teams, and generate a personal vision for your leadership style. You will also document safety and environmental management systems applied in engineering workplaces, with a focus on cultural aspects. You will examine ethical principles, codes of ethics and apply approaches to ethical decision making. You will develop a three-year career plan outlining professional, technical and personal aspects of career development. In preparation for this unit, it is strongly recommended that you have undertaken industry practice experience in a workplace, either via Industry Practice unit(s) or vacation employment.

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

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 - 2020

- 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 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. **Report**

Weighting: 30%

2. **Case Study**

Weighting: 30%

3. **Portfolio**

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 Have Your Say

Feedback

Assessment feedback needs to be improved

Recommendation

Review the feedback process with the aim of introducing a new feedback form for each assessment.

Feedback from Have Your Say

Feedback

Unit content was great and helpful to complete the assessment

Recommendation

Similar content will be used in the next offering.

Unit Learning Outcomes

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

1. Identify and analyse leadership and engineering management techniques
2. Generate a personal leadership vision
3. Document safety and environmental management systems applied in engineering workplaces, with a focus on cultural aspects
4. Apply professional judgement, standard approaches and codes of ethics to decision making within a business environment
5. Develop a three-year career plan outlining professional, technical and personal aspects of career development.

By undertaking this unit and students will demonstrate Engineers Australia's Stage One Competencies for Professional Engineers to a substantial degree.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Report - 30%	•		•		
2 - Case Study - 30%				•	
3 - Portfolio - 40%		•			•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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 - Report - 30%	•		•	•	•					
2 - Case Study - 30%	•	•	•	•				•		
3 - Portfolio - 40%	•		•	•		•			•	

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)

Referencing Style

No referencing style set.

Teaching Contacts

Francis Edwards Unit Coordinator
f.edwards@cqu.edu.au

Aruna Jayasuriya Unit Coordinator
a.jayasuriya@cqu.edu.au

Schedule

Week 1 - 13 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Engineering Management		

Week 2 - 20 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Engineering Management Commence development of Industry Report.		

Week 3 - 27 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Leadership Continue development of Industry Report.		

Week 4 - 03 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Safety Management Continue development of Industry Report.		

Week 5 - 10 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Guest Lectures Continue development of Industry Report.		

Vacation Week - 17 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 24 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Ethics Complete development of Industry Report		Industry Report Due: Week 6 Friday (28 Aug 2020) 10:00 pm AEST

Week 7 - 31 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Environmental Management Commence development of Ethics Case Study.		

Week 8 - 07 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Guest Lectures Continue development of Ethics Case Study.		

Week 9 - 14 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Professional Development Complete development of Ethics Case Study.		Ethics Case Study Due: Week 9 Friday (18 Sept 2020) 10:00 pm AEST

Week 10 - 21 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Career Planning Commence development of Career Plan Portfolio.		

Week 11 - 28 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Review Continue development of Career Plan Portfolio.		

Week 12 - 05 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic
Review Complete development of Career Plan Portfolio.		Career Plan Portfolio Due: Week 12 Friday (9 Oct 2020) 10:00 pm AEST

Review/Exam Week - 12 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic

Exam Week - 19 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Industry Report

Assessment Type

Report

Task Description

As you have learned in the course material, Engineering Management involves the application of general management functions within engineering teams. In addition, amongst the four well-known management functions, you are likely to be exposed to the Controlling function in a Graduate Engineer role.

In this assessment, will review an industry-based engineering process and document how management control techniques are embedded within the process to ensure the desired results are achieved.

Further details of this assessment task are available on the Moodle site.

Assessment Due Date

Week 6 Friday (28 Aug 2020) 10:00 pm AEST

Return Date to Students

Week 8 Friday (11 Sept 2020)

Weighting

30%

Minimum mark or grade

50%

Assessment Criteria

Describe Management Processes

Analyse the Relationship Between Standards, Measures and Feedback

Identify and Describe Safety Processes

Relate Leadership and Culture to Performance

Describe and evaluate leadership skills
Accuracy and Clarity of the Report
Appropriate use of Sentence Structure and Grammar

Submission

Online

Graduate Attributes

- Communication
- Critical Thinking
- Information Literacy
- Team Work

Learning Outcomes Assessed

- Identify and analyse leadership and engineering management techniques
- Document safety and environmental management systems applied in engineering workplaces, with a focus on cultural aspects

2 Ethics Case Study

Assessment Type

Case Study

Task Description

Your second assessment item involves analysis and application of decision-making processes to case studies related to engineering ethics, responding to the ethical issues raised via a Case Study Report.
Your assessment task involves selecting two (2) of the supplied Case Studies and documenting how you would approach an ethical issue identified in the case. You will then apply a structured decision-making process to reach a decision regarding your issue. Your decisions should be supported at each stage by referencing appropriate external standards, laws, guidelines and codes, or by describing your personal beliefs and opinions.
Further details of this assessment task are available on the Moodle site.

Assessment Due Date

Week 9 Friday (18 Sept 2020) 10:00 pm AEST

Return Date to Students

Week 12 Friday (9 Oct 2020)

Weighting

30%

Minimum mark or grade

50%

Assessment Criteria

Identify and describe ethical issues
Analyse relevant legal, technical and professional issues
Ability to provide reasonable decision options
Express ethical views in a clear and appropriate manner
Consistently apply a decision-making framework
Accuracy and Clarity of the Report
Appropriate use of Sentence Structure and Grammar

Submission

Online

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Ethical practice

Learning Outcomes Assessed

- Apply professional judgement, standard approaches and codes of ethics to decision making within a business

environment

3 Career Plan Portfolio

Assessment Type

Portfolio

Task Description

The final assessment item of this unit involves the development of a career plan, presented as a portfolio and consisting of your leadership vision, technical and professional development plans, and a tabular summary of your overall career plan.

Further details of this assessment task are available on the Moodle site.

Assessment Due Date

Week 12 Friday (9 Oct 2020) 10:00 pm AEST

Return Date to Students

Exam Week Friday (23 Oct 2020)

Weighting

40%

Minimum mark or grade

50%

Assessment Criteria

Analyse Leadership Skills

Express an achievable vision and mission

Conduct research into a technical specialisation

Self-assess and perform a skills gap analysis

Articulate feasible (SMART) technical development actions

Articulate feasible (SMART) professional development actions

Summarise plans and actions

Accuracy and Clarity of the Report

Submission

Online

Graduate Attributes

- Communication
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Social Innovation

Learning Outcomes Assessed

- Generate a personal leadership vision
- Develop a three-year career plan outlining professional, technical and personal aspects of career development.

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