



# ENEP14004 *Engineering Practice Experience*

## Term 1 - 2024

Profile information current as at 05/09/2024 02:23 pm

All details in this unit profile for ENEP14004 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

Engineering practice is essential for all graduating engineers. In this unit, you will analyse the structure, products, and services of your host organisation. You will demonstrate completing the professional practice requirements of your course. Additionally, you will reflect on attaining Engineers Australia's Stage 1 Competencies using evidence from your e-portfolio, professional practice experience, units studied and other experiences. Finally, you will identify future opportunities aligned with your interests and capabilities to develop a career plan.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 4*

Credit Points: *0*

Student Contribution Band: *2*

Fraction of Full-Time Student Load: *0*

### Pre-requisites or Co-requisites

Prerequisite: 72cp for CC02 Associate Degree of Engineering students OR otherwise, the final-year Project Planning unit (ENTG13002 OR ENEG14003)

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 1 - 2024

- 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 0-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 0 hours of study per week, making a total of 0 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: Pass/Fail

#### 2. **Written Assessment**

Weighting: Pass/Fail

#### 3. **Written Assessment**

Weighting: Pass/Fail

### Assessment Grading

This is a pass/fail (non-graded) unit. To pass the unit, you must pass all of the individual assessment tasks shown in the table above.

## 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 Student evaluation

**Feedback**

It would be good to provide a portfolio template over the summer.

**Recommendation**

A portfolio template should be provided to students over the summer upon request.

#### Feedback from Student evaluation

**Feedback**

FAQ (frequently asked questions) need to be updated.

**Recommendation**

Additional questions should be included when updating the FAQ.

#### Feedback from Student evaluation

**Feedback**

Clear information regarding unit requirements would be valuable.

**Recommendation**

Students should be provided with clarification of the unit requirements.

## Unit Learning Outcomes

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

1. Analyse the structure, products, and services of an engineering organisation
2. Apply skills and knowledge developed in an academic course to practice in an engineering organisation
3. Reflect on and map Engineers Australia's Stage 1 Competency Standards to professional practice activities
4. Develop a strategic approach to personal and professional growth in the workplace.

The Learning Outcomes for this unit are linked with the Engineers Australia Stage 1 Competency Standards for Professional Engineers in the areas of 1. Knowledge and Skill Base, 2. Engineering Application Ability and 3. Professional and Personal Attributes at the following levels:

#### Advanced

1.1 Comprehensive, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline. (LO: 2A 3A)

1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline. (LO: 2A 3A)

1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline. (LO: 2A 3A)

1.4 Discernment of knowledge development and research directions within the engineering discipline. (LO: 2A 3A)

1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline. (LO: 2A 3A)

1.6 Understanding of the scope, principles, norms, accountabilities, and bounds of sustainable engineering practice in the specific discipline. (LO: 2A 3A)

2.1 Application of established engineering methods to complex engineering problem solving. (LO: 2A 3A)

2.2 Fluent application of engineering techniques, tools and resources. (LO: 2A 3A)

2.3 Application of systematic engineering synthesis and design processes. (LO: 2A 3A)

2.4 Application of systematic approaches to the conduct and management of engineering projects. (LO: 2A 3A)

3.1 Ethical conduct and professional accountability. (LO: 1A 2A 3A 4A)

3.2 Effective oral and written communication in professional and lay domains. (LO: 1A 2A 3A 4A)

3.3 Creative, innovative, and pro-active demeanour. (LO: 1A 2A 3A 4A)

3.4 Professional use and management of information. (LO: 1A 2A 3A 4A)

3.5 Orderly management of self, and professional conduct. (LO: 1A 2A 3A 4A)

3.6 Effective team membership and team leadership. (LO: 1A 2A 3A 4A)

*Note: LO refers to the Learning Outcome number(s) which link to the competency and the levels: N - Introductory, I - Intermediate and A - Advanced.*

Refer to the Engineering Undergraduate Course Moodle site for further information on the Engineers Australia's Stage 1 Competency Standard for Professional Engineers and course level mapping information

<https://moodle.cqu.edu.au/course/view.php?id=1511>



## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	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				

## 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

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)  
 For further information, see the Assessment Tasks.

## Teaching Contacts

**Kali Nepal** Unit Coordinator  
[k.nepal@cqu.edu.au](mailto:k.nepal@cqu.edu.au)

## Schedule

### Week 1 - 04 Mar 2024

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 2 - 11 Mar 2024

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 3 Engineering practice experience: unit requirements - 18 Mar 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Initial workshop

- CV/Resume
- Reflection on Engineers Australia Stage 1 competencies
- Engineering practice experience: report, record-sheet, certification and employer evaluation

### Week 4 - 25 Mar 2024

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 5 - 01 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
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### Vacation Week - 08 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 6 Engineering practice experience: discussion - 15 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Mid-term workshop (updates)

- Updates on:
- CV/Resume
  - Reflection on Engineers Australia Stage 1 competencies
  - Engineering practice experience: report, record-sheet, certification and employer evaluation

### Week 7 - 22 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 8 Engineering practice experience: portfolio and requirements - 29 Apr 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Before submission workshop (finalising)

- Finalising the components of Portfolio:
- CV/Resume
  - Reflection on Engineers Australia Stage 1 competencies
  - Engineering practice experience: report, record-sheet, certification and employer evaluation

### Week 9 - 06 May 2024

Module/Topic	Chapter	Events and Submissions/Topic
<b>Week 10 - 13 May 2024</b>		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b> Complete " <b>CV/Resume</b> " and submit for feedback (compulsory) Complete " <b>Reflection on Engineers Australia Stage One Competencies</b> " and submit (compulsory)  <b>Portfolio Preparation I: Curriculum Vitae and Reflection on Engineers Australia Stage One Competencies</b> Due: Week 10 Friday (17 May 2024) 11:59 pm AEST
<b>Week 11 - 20 May 2024</b>		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b> Complete " <b>Engineering Practice Experience</b> " and submit (compulsory)  <b>Portfolio preparation II: Engineering practice experience</b> Due: Week 11 Friday (24 May 2024) 11:59 pm AEST
<b>Week 12 - 27 May 2024</b>		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b> Complete " <b>Portfolio</b> " and submit (COMPULSORY)  <b>Portfolio: A complete report with all components and evidences</b> Due: Week 12 Friday (31 May 2024) 11:59 pm AEST
<b>Review/Exam Week - 03 Jun 2024</b>		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
<b>Exam Week - 10 Jun 2024</b>		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>

## Assessment Tasks

### 1 Portfolio Preparation I: Curriculum Vitae and Reflection on Engineers Australia Stage One Competencies

#### Assessment Type

Written Assessment

#### Task Description

This submission is COMPULSORY (failure to submit this assessment item results automatic fail in the unit). It forms a part of final PORTFOLIO, which is graded for PASS or FAIL.

- Students must prepare an appropriate CV with a brief career plan that includes short-, medium-, and long-term career goals and objectives to attain them.
- The students must reflect on how they have met each of Engineers Australia Stage 1

competencies with sound and supported evidences. Students may use evidences from their e-Portfolio, assessments, tasks completed on work experience and other relevant activities. Therefore, a good e-Portfolio will be very helpful. Students must mention the tasks completed and reflect on their skill development and knowledge.

**Assessment Due Date**

Week 10 Friday (17 May 2024) 11:59 pm AEST

**Return Date to Students**

Week 11 Friday (24 May 2024)

**Weighting**

Pass/Fail

**Assessment Criteria**

1. The quality of student's professional CV that incorporates all important aspects. It is suggested that students think carefully about who they want to nominate to be their referees as they need to be relevant to their experiences and they may be contacted to verify information students have claimed. There is no template for CV but it should look professionally appealing.
2. The mapping of students skills against the Engineers Australia Stage One competencies for professional engineers. Students must describe how they have met each of the competency items and reflect on what skills they have developed or enhanced so far and how they will utilize them in their future career. This mapping must be prepared using the provided template.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Reflect on and map Engineers Australia's Stage 1 Competency Standards to professional practice activities

## 2 Portfolio preparation II: Engineering practice experience

**Assessment Type**

Written Assessment

**Task Description**

This submission is COMPULSORY (failure to submit this assessment item results automatic fail in the unit). It forms a part of final PORTFOLIO, which is graded for PASS or FAIL.

Each student must have gained and then report on a minimum number of hours approved industry experience in an appropriate area of engineering as follows:

- A minimum of 12 weeks or 480 hours for Bachelor of Engineering (Honours);
- A minimum of 9 weeks or 360 hours for Bachelor of Engineering Technology; and
- A minimum of 6 weeks or 240 hours for Associate Degree of Engineering.

The experience must be well documented and submitted for assessment. Details for this assessment is provided in "FORM - Student Engineering Practice Report v3".

**Assessment Due Date**

Week 11 Friday (24 May 2024) 11:59 pm AEST

**Return Date to Students**

Week 12 Tuesday (28 May 2024)

**Weighting**

Pass/Fail

**Assessment Criteria**

Students must demonstrate the achievement of their engineering practice through a combination of the following engineering practice reporting.

- (1) Engineering practice experience as a report or a 5-minute video blog,
- (2) Experience record sheet, and
- (3) Experience practice certification and employer evaluation of student



**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Analyse the structure, products, and services of an engineering organisation
- Apply skills and knowledge developed in an academic course to practice in an engineering organisation

### 3 Portfolio: A complete report with all components and evidences

**Assessment Type**

Written Assessment

**Task Description**

This submission is COMPULSORY. This is the only assessment item in this unit that is graded on PASS or FAIL basis. In order to PASS the unit, students must complete a portfolio with all components and evidences. Please use the provided template. Essential components of portfolio are:

- Curriculum vitae (professionally appealing)
- Reflection of Engineers Australia State One competencies (with examples/evidences relevant to the competencies)
- Engineering practice experience (report or a 5-minute video blog, record-sheet, certification and employer evaluation from qualified engineer at your work experience).

**Assessment Due Date**

Week 12 Friday (31 May 2024) 11:59 pm AEST

COMPULSORY submission for grading

**Return Date to Students**

Exam Week Friday (14 June 2024)

**Weighting**

Pass/Fail

**Assessment Criteria**

Students are required to clearly demonstrate satisfactory achievement of the following components:

- 1) A well-prepared professional curriculum vitae.
- 2) An understanding of their strengths and weaknesses in their Engineers Australia Stage One competencies:
  - a) engineering knowledge and skills (integration, problem identification, critical thinking, problem solving, decision making and ethics);
  - b) team and interpersonal attributes (social skills, initiative and independence); and
  - c) professional practice (technical skills, time management, verbal and written communication).
- 3) The practice of engineering in the industry in which the student has been engaged in since enrolled into a relevant course of study to enhance their practice knowledge of technical disciplines in the employer's industry. It should include all compulsory items listed in the "FORM - Student Engineering Practice Report v3".

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Develop a strategic approach to personal and professional growth in the workplace.

## 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