



# ENTG13002 Engineering Technology Project Planning Term 1 - 2017

Profile information current as at 25/04/2024 06:07 pm

All details in this unit profile for ENTG13002 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 Technology course, you will work independently to plan a project that allows you to demonstrate technical and professional capabilities (Engineers Australia's Stage One Competencies) expected of graduating engineering technologists. You will conduct research, demonstrate critical thinking and document sound analysis, decision-making and judgement to support your project. You will work and learn autonomously, prepare and adhere to work and reporting schedules, communicate progress, and prepare formal and informal project documents. You will define and scope your project, apply technical knowledge, assess safety and risks and prepare a proposal and plan for implementing the project in the following implementation unit. Note: Before enrolment can be accepted, you must confirm with the unit coordinator that you have identified a suitable project, obtained an academic adviser and have completed all relevant units in prior years of the course.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

### Pre-requisites or Co-requisites

COND: Completion of all prior units in the nominal course structure - to be checked by Head of Course or Unit Coordinator during facilitation of the enrolment process.

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 - 2017

- Distance

### 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. **Written Assessment**

Weighting: 10%

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

Weighting: 20%

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

Weighting: 20%

#### 4. **Written Assessment**

Weighting: 50%

### 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 Student feedback

**Feedback**

More learning resources required

**Recommendation**

Exemplars of previous student work will be made available in Term 2.

## Unit Learning Outcomes

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

1. Apply a substantial degree of the Engineers Australia's Stage One Competencies for Engineering Technologists to the planning phases of an engineering project.
2. Prepare a project scope with your advisers that includes a project definition, identification of project stakeholders and expected timing of milestones and deliverables.
3. Research critical areas of your project by evaluating and extracting information from reputable sources and relevant authorities.
4. Identify the tasks required for the implementation phases, including application of appropriate technical capabilities developed in preceding units of study, and integration with new capabilities necessary to form a comprehensive project plan.
5. Prepare a project proposal that justifies the continuation of the project into the implementation phases.

By undertaking this unit and the follow-on Implementation unit students will demonstrate Engineers Australia's Stage One Competencies for Engineering Technologists to a substantial degree.



## Textbooks and Resources

### Textbooks

ENTG13002

#### Supplementary

##### **The Thinker's Guide to Engineering Reasoning**

Edition: 2nd (2013)

Authors: Richard Paul, Dr. Robert Niewoehner and Linda Elder

Foundation for Critical Thinking

Tomales , CA , USA

ISBN: 978-0-9857544-1-9

Binding: Paperback

#### **Additional Textbook Information**

May also be available as Kindle edition.

<http://www.criticalthinking.org/store/products/engineering-reasoning-2nd-edition/232>

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

**You will need access to the following IT resources:**

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Presentation software such as MS Powerpoint
- Project management software such as MS Project
- Software specific to project
- Word processing software such as MS Word

## Referencing Style

**All submissions for this unit must use the referencing styles below:**

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

For further information, see the Assessment Tasks.

## Teaching Contacts

**Justin Hyde** Unit Coordinator

[j.hyde@cqu.edu.au](mailto:j.hyde@cqu.edu.au)

## Schedule

### **Week 1 - 06 Mar 2017**

#### **Module/Topic**

Commence researching your project.

#### **Chapter**

#### **Events and Submissions/Topic**

Share progress with adviser(s)

### **Week 2 - 13 Mar 2017**

#### **Module/Topic**

Start preparing your project scope.

#### **Chapter**

#### **Events and Submissions/Topic**

Share progress with adviser(s)

### **Week 3 - 20 Mar 2017**

Module/Topic	Chapter	Events and Submissions/Topic
Check guidelines for scope in Moodle.		Share progress with adviser(s)
<b>Week 4 - 27 Mar 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Submit your project scope for feedback.		Share progress with adviser(s) <b>Project Scope</b> Due: Week 4 Monday (27 Mar 2017) 12:00 pm AEST
<b>Week 5 - 03 Apr 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Continue developing your literature review and proposed project methodology.		Share progress with adviser(s)
<b>Vacation Week - 10 Apr 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Check guidelines for literature review in Moodle.		Share progress with adviser(s)
<b>Week 6 - 17 Apr 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Submit your literature review for feedback.		Share progress with adviser(s) <b>Literature Review</b> Due: Week 6 Tuesday (18 Apr 2017) 12:00 pm AEST
<b>Week 7 - 24 Apr 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Continue developing your proposed project methodology.		Share progress with adviser(s)
<b>Week 8 - 01 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Check guidelines for your proposed project methodology in Moodle.		Share progress with adviser(s)
<b>Week 9 - 08 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Submit your proposed project methodology for feedback.		Share progress with adviser(s) <b>Proposed Project Methodology</b> Due: Week 9 Monday (8 May 2017) 12:00 pm AEST
<b>Week 10 - 15 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Continue developing your project proposal and reflections.		Share progress with adviser(s)
<b>Week 11 - 22 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Check guidelines for proposal and reflections in Moodle.		Share progress with adviser(s)
<b>Week 12 - 29 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic

Submit your portfolio for grading and moderation.

Share progress with adviser(s)

**Portfolio** Due: Week 12 Monday (29 May 2017) 12:00 pm AEST

### Review/Exam Week - 05 Jun 2017

Module/Topic	Chapter	Events and Submissions/Topic
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### Exam Week - 12 Jun 2017

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

## Assessment Tasks

### 1 Project Scope

#### Assessment Type

Written Assessment

#### Task Description

Prepare a project scope which includes the following sections:

1. Project aim and objectives
2. Project justification
3. Stakeholder identification and stakeholder communication plan
4. Anticipated resources required
5. Expected project deliverables
6. Expected project milestones

#### Assessment Due Date

Week 4 Monday (27 Mar 2017) 12:00 pm AEST

#### Return Date to Students

Monday (10 Apr 2017)

#### Weighting

10%

#### Minimum mark or grade

25%

#### Assessment Criteria

Your project scope must meet the minimum standard as described in the assessment criteria sheet in Moodle. The assessment criteria also specifies how you may achieve a higher mark for your project scope.

#### Referencing Style

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

#### Submission

Online

#### Learning Outcomes Assessed

- Apply a substantial degree of the Engineers Australia's Stage One Competencies for Engineering Technologists to the planning phases of an engineering project.
- Prepare a project scope with your advisers that includes a project definition, identification of project stakeholders and expected timing of milestones and deliverables.

#### Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

## 2 Literature Review

### Assessment Type

Written Assessment

### Task Description

Prepare a literature review appropriate for your project.

### Assessment Due Date

Week 6 Tuesday (18 Apr 2017) 12:00 pm AEST

### Return Date to Students

Week 8 Tuesday (2 May 2017)

### Weighting

20%

### Minimum mark or grade

25%

### Assessment Criteria

Your literature review must meet the minimum standard as described in the assessment criteria sheet in Moodle. The assessment criteria also specifies how you may achieve a higher mark for your literature review.

### Referencing Style

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

### Submission

Online

### Learning Outcomes Assessed

- Apply a substantial degree of the Engineers Australia's Stage One Competencies for Engineering Technologists to the planning phases of an engineering project.
- Research critical areas of your project by evaluating and extracting information from reputable sources and relevant authorities.

### Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

## 3 Proposed Project Methodology

### Assessment Type

Written Assessment

### Task Description

Prepare a project methodology that will help you achieve the deliverables of your project.

### Assessment Due Date

Week 9 Monday (8 May 2017) 12:00 pm AEST

### Return Date to Students

Monday (22 May 2017)



**Weighting**

20%

**Minimum mark or grade**

25%

**Assessment Criteria**

Your proposed project methodology must meet the minimum standard as described in the assessment criteria sheet in Moodle. The assessment criteria also specifies how you may achieve a higher mark for your proposed project methodology.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Apply a substantial degree of the Engineers Australia's Stage One Competencies for Engineering Technologists to the planning phases of an engineering project.
- Identify the tasks required for the implementation phases, including application of appropriate technical capabilities developed in preceding units of study, and integration with new capabilities necessary to form a comprehensive project plan.

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

## 4 Portfolio

**Assessment Type**

Written Assessment

**Task Description**

Prepare a portfolio which must include the following compulsory components.

- Project Proposal which justifies that your project may continue into the Implementation phases.
- Reflections on how well your project helps you meet some of the CQU Graduate Capabilities for your discipline.

Failure to include either portfolio component will result in a non-passing grade.

**Assessment Due Date**

Week 12 Monday (29 May 2017) 12:00 pm AEST

**Return Date to Students**

Once marking and moderation have been completed

**Weighting**

50%

**Minimum mark or grade**

50%

**Assessment Criteria**

Your proposal must meet the minimum standard as described in the assessment criteria sheet in Moodle. The assessment criteria also specifies how you may achieve a higher mark for your proposal.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Apply a substantial degree of the Engineers Australia's Stage One Competencies for Engineering Technologists to the planning phases of an engineering project.
- Prepare a project scope with your advisers that includes a project definition, identification of project stakeholders and expected timing of milestones and deliverables.
- Research critical areas of your project by evaluating and extracting information from reputable sources and relevant authorities.
- Identify the tasks required for the implementation phases, including application of appropriate technical capabilities developed in preceding units of study, and integration with new capabilities necessary to form a comprehensive project plan.
- Prepare a project proposal that justifies the continuation of the project into the implementation phases.

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

## 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