



# ENTC12004 *Civil Construction*

## Term 1 - 2019

Profile information current as at 02/06/2025 03:03 pm

All details in this unit profile for ENTC12004 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

Students are introduced to the roles of civil construction team members, use of typical project documents, application of Standards, acts and regulations and construction processes to civil earthworks, temporary works, substructure works and superstructure works for routine construction projects. Students conduct research, prepare reports and presentations and work independently and in teams in a professional manner. Distance education (FLEX) students are required to have access to a computer and to make frequent use of the Internet.

#### 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

Cond: Flex mode is not available to students in Co-op Course CF47

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 - 2019

- 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. **Written Assessment**

Weighting: 25%

#### 2. **Online Quiz(zes)**

Weighting: 30%

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

Weighting: 45%

### 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 Moodle Unit evaluation

##### Feedback

Assessment is based on practical application of principles.

##### Recommendation

this good practice will continue

## Unit Learning Outcomes

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

1. explain the roles of civil construction team members [3,5,7,9]
2. apply standard project and contract documents, Standards, codes of practice, acts and regulations to routine construction work [3,4,5,9]
3. plan civil engineering construction processes for given, routine civil construction tasks [3,4,5]
4. apply information literacy skills to research and prepare professional records and reports [2, 4, 9 10]
5. work and learn both individually and in teams and in a professional manner [2, 4, 6, 9, 10]

## 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 - Written Assessment - 25%		•	•	•	
2 - Online Quiz(zes) - 30%	•		•	•	
3 - Written Assessment - 45%	•	•	•	•	•

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Communication	•	•	•	•	•
2 - Problem Solving	•	•	•	•	•
3 - Critical Thinking	•	•	•	•	•

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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 - Written Assessment - 25%	•	•	•	•	•	•	•	•		
2 - Online Quiz(zes) - 30%	•	•	•	•	•	•	•	•		
3 - Written Assessment - 45%	•	•	•	•	•	•	•	•		

## Textbooks and Resources

### Textbooks

ENTC12004

#### Prescribed

#### Construction Planning equipment and methods

Edition: 9th edn (2018)

Authors: Peurifoy,RL., Schexnayder,CJ., Shapira,A and Schmitt, R.

McGraw Hill Higher Education

London , UK

ISBN: 9781260108804

Binding: Hardcover

#### Additional Textbook Information

Copies are available to purchase from the CQUni Bookshop here: <http://bookshop.cqu.edu.au> (search on the Unit code)

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

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

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Microsoft Word and Excel

## Referencing Style

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

## Teaching Contacts

**Kumaran Suntharavadivel** Unit Coordinator  
[t.suntharavadivel@cqu.edu.au](mailto:t.suntharavadivel@cqu.edu.au)

## Schedule

### Week 1 - 11 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Standards and Code of practice		

### Week 2 - 18 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Equipment in construction projects- dozer,scraper		

### Week 3 - 25 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Equipment in construction projects- excavators		

### Week 4 - 01 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Equipment in construction projects- finishing and hauling		

### Week 5 - 08 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Equipment in construction projects- construction cranes, draglines		

### Vacation Week - 15 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic

### Week 6 - 22 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Earth material stabilisation & Construction processes-Buildings		<b>Assignment 1</b> Due: Week 6 Monday (22 Apr 2019) 11:45 pm AEST

### Week 7 - 29 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Construction processes-Forming systems		

### Week 8 - 06 May 2019

Module/Topic	Chapter	Events and Submissions/Topic
Construction processes-Timber structures		

### Week 9 - 13 May 2019

Module/Topic	Chapter	Events and Submissions/Topic

Construction processes-concrete & Masonry structures

#### Week 10 - 20 May 2019

Module/Topic	Chapter	Events and Submissions/Topic
Construction processes -Steel structures		<b>Online Test</b> Due: Week 10 Thursday (23 May 2019) 5:00 pm AEST

#### Week 11 - 27 May 2019

Module/Topic	Chapter	Events and Submissions/Topic
Construction processes -Roads		

#### Week 12 - 03 Jun 2019

Module/Topic	Chapter	Events and Submissions/Topic
Construction processes -Railway		

#### Review/Exam Week - 10 Jun 2019

Module/Topic	Chapter	Events and Submissions/Topic
Program review		<b>Assignment 2</b> Due: Review/Exam Week Monday (10 June 2019) 11:45 pm AEST

#### Exam Week - 17 Jun 2019

Module/Topic	Chapter	Events and Submissions/Topic
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## Assessment Tasks

### 1 Assignment 1

#### Assessment Type

Written Assessment

#### Task Description

Weeks 1-5 content is covered in this assessment item. Students will be asked to answer questions related to standards and equipment used in construction projects. Expected answers should be in the form of definition, briefing and explanation including simple problems. Assignment questions and details will be available on the course web site during week-1 of the term.

#### Assessment Due Date

Week 6 Monday (22 Apr 2019) 11:45 pm AEST

#### Return Date to Students

Week 8 Monday (6 May 2019)

#### Weighting

25%

#### Minimum mark or grade

40% of the Assignment 1

#### Assessment Criteria

(5%) Presentation and layout—includes the selection of typeface, written and general appearance, detail and quality of the assessment item submission

(95%) Content—includes the accuracy and relevance of information, application of knowledge, language and grammar used in answering questions, and proper referencing of sources of information, images, data and tables used in the assessment submission. When referencing, use of the Harvard Referencing Style.

**Note : If the information is taken only from the prescribed text and the given resource material then obtaining a higher grade of marks may not be possible.**

#### Referencing Style

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

**Submission**

Online

**Submission Instructions**

It is not expected that students to type up calculations. Students should scan the hand written calculations for online submission.

**Learning Outcomes Assessed**

- apply standard project and contract documents, Standards, codes of practice, acts and regulations to routine construction work [3,4,5,9]
- plan civil engineering construction processes for given, routine civil construction tasks [3,4,5]
- apply information literacy skills to research and prepare professional records and reports [2, 4, 9 10]

**Graduate Attributes**

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

## 2 Online Test

**Assessment Type**

Online Quiz(zes)

**Task Description**

This assessment has questions from the content covered in Weeks 6-10. Students will be asked to answer questions related to earth material stabilization, forming systems and various construction processes. Expected answers should be in the form of definition, brief and detailed answers including simple problems. This assessment task is in the form of online test. Details including model questions will be available on the course web site on or before week-7 of the term. Late submission is not allowed.

**Number of Quizzes**

1

**Frequency of Quizzes**

Other

**Assessment Due Date**

Week 10 Thursday (23 May 2019) 5:00 pm AEST

Must be completed as per the due date and time. Late submission is not allowed

**Return Date to Students**

Week 12 Monday (3 June 2019)

Marks will be available via Moodle

**Weighting**

30%

**Minimum mark or grade**

35% of the Online Test

**Assessment Criteria**

(100% ) Content — includes the accuracy and relevance of information, application of knowledge, language and grammar used in answering questions, equations, data and tables used in answering questions.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- explain the roles of civil construction team members [3,5,7,9]
- plan civil engineering construction processes for given, routine civil construction tasks [3,4,5]
- apply information literacy skills to research and prepare professional records and reports [2, 4, 9 10]

#### **Graduate Attributes**

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

### **3 Assignment 2**

#### **Assessment Type**

Written Assessment

#### **Task Description**

This is an essay format assessment item. Students are expected to use their knowledge gained from various topics including standards, equipment used in construction projects and the process involved in the construction of load bearing structures. It is a must for students to use case study for this submission. Case study stands for the observation and analysis of an ongoing construction (option 1) or recently finished construction (option 2). Examples from literature can be used only as reference material to support the case study information of this assessment item.

All details about this assessment item including format, site inspection related forms links will be provided on the course web during week-1 of the term. It is recommended for students to plan and work towards the case study essay assessment item as early as possible.

#### **Assessment Due Date**

Review/Exam Week Monday (10 June 2019) 11:45 pm AEST

#### **Return Date to Students**

12th July 2019

#### **Weighting**

45%

#### **Minimum mark or grade**

35% of the Assignment 2

#### **Assessment Criteria**

(5 %) Presentation and layout—includes the selection of typeface, written and general appearance, detail and quality of the assessment item submission

(95%) Content—includes the accuracy and relevance of information, application of knowledge, language and grammar used in answering questions, and proper referencing of sources of information, equations, images, data and tables used in the assessment submission. When referencing, use of the Harvard Referencing Style.

#### **Referencing Style**

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

#### **Submission**

Online

#### **Submission Instructions**

A single word file

#### **Learning Outcomes Assessed**

- explain the roles of civil construction team members [3,5,7,9]
- apply standard project and contract documents, Standards, codes of practice, acts and regulations to routine construction work [3,4,5,9]
- plan civil engineering construction processes for given, routine civil construction tasks [3,4,5]
- apply information literacy skills to research and prepare professional records and reports [2, 4, 9 10]
- work and learn both individually and in teams and in a professional manner [2, 4, 6, 9, 10]



## 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