



BLAR13054 Complex Construction

Term 1 - 2025

Profile information current as at 23/05/2025 06:38 pm

All details in this unit profile for BLAR13054 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 will introduce you to the procedures, principles and methods of construction used for complex projects up to "super tall" buildings (over 300m in height) and designated by the National Construction Code (NCC) as being within Building Class 2 to 9. You should have completed an intermediate construction unit to ensure adequate level of entry knowledge. Students who have successfully completed BLAR13049 should not enrol in this unit.

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

Pre-requisite: BLAR12057 Commercial Construction or BLAR11048 Construction 2.

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 - 2025

- 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: 20%

2. **Written Assessment**

Weighting: 40%

3. **Written Assessment**

Weighting: 30%

4. **Online Quiz(zes)**

Weighting: 10%

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

Students enjoyed hearing the lecturer's professional opinion since they are working in the professional.

Recommendation

The connection with the real professional world will be maintained.

Feedback from Unit Coordinator

Feedback

The poor response rate to the satisfaction survey has produced unreliable results with little actual use.

Recommendation

We will make more effort to encourage students to complete the survey, as the results are essential to improving future students' experiences.

Feedback from Unit coordinator

Feedback

The assignments produced a skewed grade distribution towards a lot of HDs.

Recommendation

The assignments will be renewed to ensure alignment with the requirements of the level three study. Critical review and analysis will replace simple level-one discussion.

Unit Learning Outcomes

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

1. Plan the temporary works, particularly scaffolding, formwork and falsework and plant selection processes used for complex or "super tall" construction.
2. Describe the functions, materials and details of the major components. the waste management strategies used and the regulatory inspections made when constructing a complex or "super tall" project.
3. Diagnose and plan the rectification of common building faults.
4. Explain the issues encountered by complex or "super tall" buildings including funding, ownership, design and construction.
5. Discuss the development and implementation of innovative building practices.

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 - 20%	•				
2 - Written Assessment - 40%		•			

Textbooks and Resources

Textbooks

BLAR13054

Prescribed

National Construction Code

Edition: NCC 2022 Volume One - Building Code of Australia Class 2 to 9 buildings (2022) (2022)

Authors: Australian Building Codes Board

Australian Building Codes Board

Canberra , ACT , Australia

ISBN: 1 86264 872 7

Binding: eBook

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Webcam and headset
- MS Teams

Referencing Style

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

For further information, see the Assessment Tasks.

Teaching Contacts

Kaveh Mirzaei Unit Coordinator

k.mirzaei@cqu.edu.au

Schedule

Week 1 - 10 Mar 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 1: Introduction and Structural Systems	Please refer to the Moodle unit site for additional information.	

Week 2 - 17 Mar 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 2: Planning and Design Stage	Please refer to the Moodle unit site for additional information.	

Week 3 - 24 Mar 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 3: Temporary Works	Please refer to the Moodle unit site for additional information.	

Week 4 - 31 Mar 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 4: Waste Management Systems	Please refer to the Moodle unit site for additional information.	

Week 5 - 07 Apr 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 5: Work, Health and Safety	Please refer to the Moodle unit site for additional information.	

Vacation Week - 14 Apr 2025

Module/Topic	Chapter	Events and Submissions/Topic
No scheduled class	Use the time to work on an assessment or take a wellness break.	Assessment 1 Due: Vacation Week Monday (14 Apr 2025) 11:59 pm AEST

Week 6 - 21 Apr 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 6: Complaint and Regulator Management	Please refer to the Moodle unit site for additional information.	

Week 7 - 28 Apr 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 7: High-Rise and Ultra High Buildings	Please refer to the Moodle unit site for additional information.	

Week 8 - 05 May 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 8: Large Scale Projects	Please refer to the Moodle unit site for additional information.	Assesment 2 Due: Week 8 Tuesday (6 May 2025) 11:59 pm AEST

Week 9 - 12 May 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 9: Post Completion	Please refer to the Moodle unit site for additional information.	

Week 10 - 19 May 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 10: Common Building Faults in High Rise Buildings	Please refer to the Moodle unit site for additional information.	

Week 11 - 26 May 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 11: Fire Safety Systems	Please refer to the Moodle unit site for additional information.	

Week 12 - 02 Jun 2025

Module/Topic	Chapter	Events and Submissions/Topic
Topic 12: Utilities and Services	Please refer to the Moodle unit site for additional information.	

Review/Exam Week - 09 Jun 2025

Module/Topic	Chapter	Events and Submissions/Topic
Unit review and exam period begins.		Assesment 3 Due: Review/Exam Week Monday (9 June 2025) 11:59 pm AEST Online Quiz Due: Review/Exam Week Tuesday (10 June 2025) 11:59 pm AEST

Exam Week - 16 Jun 2025

Module/Topic	Chapter	Events and Submissions/Topic
Exam period concludes.		

Assessment Tasks

1 Assessment 1

Assessment Type

Written Assessment

Task Description

Assessment 1 relates to learning outcomes 1, requiring research to answer questions on Temporary works. Temporary works assist the works stages of a development project in a variety of different ways. It is important to be able to identify the most appropriate way of supporting a construction or demolition process to assist with expediting processes, making work areas safe and improving the performance of the building systems.

Your task is to detail the role of each of the following types of temporary works, who can install them, how they are installed and where they may be used on a project site.

Assessment Due Date

Vacation Week Monday (14 Apr 2025) 11:59 pm AEST

Return Date to Students

Week 7 Monday (28 Apr 2025)

Students will be advised if a delay emerges.

Weighting

20%

Assessment Criteria

Your assessment submission must be in an electronic format.

Before or on the nominated due date, upload your work following the on-screen instructions from the Assessment tab shown on the unit Moodle site. Your submission will be processed through the similarity detection software, Turnitin. You may amend your work based on the detection report. You must ensure that the work is your own or has been correctly referenced to the appropriate author(s), according to the CQU requirements. You will find further support material for this assessment on the unit Moodle site.

The assessment will be assessed on the following criteria:

Show clarity and succinctness of expression.

Adequate coverage of topics discussed.

Use and reference correctly supporting information.

Communicate using correct spelling, grammar and punctuation.

Use graphs, illustrations and other graphics to visually support your submission.

Demonstrate the core knowledge associated with this unit and show appropriate application of that knowledge.

Referencing Style

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

Submission

Online

Submission Instructions

Submit as a single file via the Moodle Assessment portal.

Learning Outcomes Assessed

- Plan the temporary works, particularly scaffolding, formwork and falsework and plant selection processes used for complex or "super tall" construction.

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Team Work
- Information Technology Competence

2 Assessment 2

Assessment Type

Written Assessment

Task Description

Assessment 2 relates to learning outcomes 2, requiring research to answer questions on building regulations. Building regulation is at times reactionary in nature. Incidents occur, investigations happen, lessons are learned and regulation is changed/enhanced. Large incidents at times led to changes in building regulation and more importantly, an appreciation for good fire safety practices. As building professionals, our education is largely based on reading the NCC, standards and legislation. It is a fundamental part of our professional development, however at times, learning from real incidents helps us to put the pieces together on why particular safety controls are required by the NCC. It also improves our ability to educate others about the importance of fire safety measures by being able to discuss the role these measures have and what can happen if they are not implemented or fail to activate.

Assessment Due Date

Week 8 Tuesday (6 May 2025) 11:59 pm AEST

Return Date to Students

Week 10 Monday (19 May 2025)

Students will be advised if a delay emerges.

Weighting

40%

Assessment Criteria

Your assessment submission must be in an electronic format.

Before or on the nominated due date, upload your work following the on-screen instructions from the Assessment tab shown on the unit Moodle site. Your submission will be processed through the similarity detection software, Turnitin. You may amend your work based on the detection report. You must ensure that the work is your own or has been correctly referenced to the appropriate author(s), according to the CQU requirements. You will find further support material for this assessment on the unit Moodle site.

The assessment will be assessed on the following criteria:

Show clarity and succinctness of expression.

Adequate coverage of topics discussed.

Use and reference correctly supporting information.

Communicate using correct spelling, grammar and punctuation.

Use graphs, illustrations and other graphics to visually support your submission.

Demonstrate the core knowledge associated with this unit and show appropriate application of that knowledge.

Referencing Style

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

Submission

Online

Submission Instructions

Submit as a single file via the Moodle Assessment portal.

Learning Outcomes Assessed

- Describe the functions, materials and details of the major components. the waste management strategies used and the regulatory inspections made when constructing a complex or "super tall" project.

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Information Technology Competence
- Ethical practice

3 Assessment 3

Assessment Type

Written Assessment

Task Description

Assessment 3 relates to learning outcomes 3, 4, and 5, requiring research to answer questions on defects in buildings. Defects in buildings are nearly always inevitable, particularly for large complex projects due to the scale of the project,

the range of sub-elements in the building and reliance on third-party certification for a lot of sub-elements rather than physical inspection during installation/commissioning. Your task is the research the following common building defects and to determine possible causes for the defect, ways to investigate/assess the problem and ways to potentially remedy the problem. Moreover, conveying garbage and services in high-rise buildings is ordinarily undertaken in shafts (vertical and horizontal). Shafts play a variety of different roles in a building and are described in the NCC a number of different times. Your task for this part of the assessment is to investigate a range of different shafts (as described) in high-rise buildings.

Assessment Due Date

Review/Exam Week Monday (9 June 2025) 11:59 pm AEST

Return Date to Students

Returned within two weeks of submission and before certification of grades.

Weighting

30%

Assessment Criteria

Your assessment submission must be in an electronic format.

Before or on the nominated due date, upload your work following the on-screen instructions from the Assessment tab shown on the unit Moodle site. Your submission will be processed through the similarity detection software, Turnitin. You may amend your work based on the detection report. You must ensure that the work is your own or has been correctly referenced to the appropriate author(s), according to the CQU requirements. You will find further support material for this assessment on the unit Moodle site.

The assessment will be assessed on the following criteria:

Show clarity and succinctness of expression.

Adequate coverage of topics discussed.

Use and reference correctly supporting information.

Communicate using correct spelling, grammar and punctuation.

Use graphs, illustrations and other graphics to visually support your submission.

Demonstrate the core knowledge associated with this unit and show appropriate application of that knowledge.

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Diagnose and plan the rectification of common building faults.
- Explain the issues encountered by complex or "super tall" buildings including funding, ownership, design and construction.
- Discuss the development and implementation of innovative building practices.

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

4 Online Quiz

Assessment Type

Online Quiz(zes)

Task Description

This assessment item relates to the unit learning outcomes 1, 2, 3, 4, and 5, and includes multiple choice questions. One attempt is allowed.

Number of Quizzes**Frequency of Quizzes**

Other

Assessment Due Date

Review/Exam Week Tuesday (10 June 2025) 11:59 pm AEST

Attempt via Moodle Learning Site.

Return Date to Students

Within 24 hours of due date or submission date (whichever is the latest).

Weighting

10%

Assessment Criteria

Your answers will be automatically marked by the system.

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Plan the temporary works, particularly scaffolding, formwork and falsework and plant selection processes used for complex or "super tall" construction.
- Describe the functions, materials and details of the major components. the waste management strategies used and the regulatory inspections made when constructing a complex or "super tall" project.
- Diagnose and plan the rectification of common building faults.
- Explain the issues encountered by complex or "super tall" buildings including funding, ownership, design and construction.
- Discuss the development and implementation of innovative building practices.

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