BLAR12056 *Construction Legislation 2*
Term 3 - 2017

Profile information current as at 19/05/2024 07:09 am

General Information

Overview
This unit will give you the opportunity to examine and apply the National Construction Code (NCC) and associated legislation to Building Class 2 to 9 projects. You will learn about statutory controls and assessment; enforcement proceedings; how Australian Standards, government Acts and other industry codes interact with the NCC; and the application of the principles of performance-based legislation. You should have completed an introductory construction legislation unit to ensure adequate level of entry knowledge. Students who have successfully completed BLSV13021 should not enrol in this unit.

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
Pre-requisite: BLAR11051 Construction Legislation 1 or BLAR12034 Building Legislation 1. Students who have successfully completed BLSV13021 should not enrol in 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 3 - 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: 25%
2. **Written Assessment**
Weighting: 40%
3. **Written Assessment**
Weighting: 25%
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 Unit evaluation

Feedback
The only thing was the audio in the lectures was not great.

Recommendation
Zoom will be used to replace Blackboard Collaborate.

Feedback from Unit evaluation

Feedback
Lecture slides can be more informative to benefit students that can't participate the online sessions.

Recommendation
More information will be added to the lecture slides.

Unit Learning Outcomes

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

1. Interpret and apply the National Construction Code (NCC) for Building Class 2 to 9 projects
2. Assess design documentation for compliance with building legislation including Workplace Health and Safety, and Disability Discrimination laws, and Australian Standards
3. Know and apply the enforcement provisions under current building legislation.

Alignment of Learning Outcomes, Assessment and Graduate Attributes

— N/A Level ◦ Introductory Level • Intermediate Level • Graduate Level ◦ Professional Level ◦ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes		
	1	2	3
1 - Written Assessment - 25%	•		
2 - Written Assessment - 40%		•	
3 - Written Assessment - 25%			•
4 - Online Quiz(zes) - 10%	•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes		
	1	2	3
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 - Written Assessment - 25%	•	•	•	•		•		•		
2 - Written Assessment - 40%	•	•	•	•		•		•		
3 - Written Assessment - 25%	•	•	•	•		•		•		
4 - Online Quiz(zes) - 10%	•	•		•		•		•		

Textbooks and Resources

Textbooks

There are no required textbooks.

Additional Textbook Information
Please read the learning guide.

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

Bill Zhao Unit Coordinator
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Schedule

Week 1 - 06 Nov 2017

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to BCA Volume 1 and enabling legislation		

Week 2 - 13 Nov 2017

Module/Topic	Chapter	Events and Submissions/Topic
Structural stability of buildings and building components		

Week 3 - 20 Nov 2017

Module/Topic	Chapter	Events and Submissions/Topic
Fire resistance of building structures and building elements		

Week 4 - 27 Nov 2017

Module/Topic	Chapter	Events and Submissions/Topic
Preventing fire spread through compartmentation and separation		A1 due on 1 Dec 2017 **Written Assessment** Due: Week 4 Friday (1 Dec 2017) 11:45 pm AEST

Vacation Week - 04 Dec 2017

Module/Topic	Chapter	Events and Submissions/Topic

Week 5 - 11 Dec 2017

Module/Topic	Chapter	Events and Submissions/Topic
Fire suppression systems used in buildings		

Week 6 - 18 Dec 2017

Module/Topic	Chapter	Events and Submissions/Topic
Smoke hazard management		

Week 7 - 01 Jan 2018

Module/Topic	Chapter	Events and Submissions/Topic
Accessibility of buildings and facilities within buildings		A2 due on 3 Jan 2018 **Written Assessment** Due: Week 7 Wednesday (3 Jan 2018) 11:45 pm AEST

Week 8 - 08 Jan 2018

Module/Topic	Chapter	Events and Submissions/Topic

Health and amenity		

Week 9 - 15 Jan 2018

Module/Topic	Chapter	Events and Submissions/Topic
Other building related safety issues		

Week 10 - 22 Jan 2018

Module/Topic	Chapter	Events and Submissions/Topic
Building laws affecting existing buildings		

Week 11 - 29 Jan 2018

Module/Topic	Chapter	Events and Submissions/Topic

Week 12 - 05 Feb 2018

Module/Topic	Chapter	Events and Submissions/Topic
		A3 due on 7 Feb 2017 **Written Assessment** Due: Week 12 Wednesday (7 Feb 2018) 11:45 pm AEST

Review/Exam Week - 12 Feb 2018

Module/Topic	Chapter	Events and Submissions/Topic
		Online Quiz(zes) Due: Exam Week Thursday (15 Feb 2018) 11:45 pm AEST

Exam Week - 12 Feb 2018

Module/Topic	Chapter	Events and Submissions/Topic
		A4 online quiz due on 15 Feb 2018 **Online Quiz(zes)** Due: Exam Week Thursday (15 Feb 2018) 11:45 pm AEST

Assessment Tasks

1 Written Assessment

Assessment Type
Written Assessment

Task Description

Question 1. Building surveyor and legal process

a) Research and critically examine the building control legislation in your State and describe what

i) The objectives are;

ii) How are these objectives achieved in practise; and

iii) What changes in this legislation is forthcoming.

b) What is the role of the building surveyor in the building control process? Examine this from the project inception through to project delivery;

c) How are the practises of building surveyors regulated, and to your expert opinion is this regulation adequate and successful?

d) What mediation process exists between

i) the building surveyor and his client; and

ii) the building surveyor and the local government?

Question 2. Assessment of Structural stability, fire resistance and the adequacy of structures in fire.

Background:

A well know German winery purchased a regional vineyard with several dilapidated but State and local Heritage listed buildings. The new owners have a grand vision for this farm. Their vision is a boutique hotel in one of the buildings and ultra modern winery that also houses a regional art gallery and cooking school in the other. The new owners won a contract with ABC 1 for a cooking show as direct competition to MasterChef. The cooking show will use the cooking school and boutique hotel for the next season of this program. The filming is due to start in 9 months, so the pressure is on to get all approvals and construction work done before then. The Local Council's Mayor has given their endorsement of this project, and

The most prominent structure, earmarked for the boutique hotel, is a three-storey hand cut stone building, a former convent. The building has a footprint of 2,800 square metres, and access to the above ground floors is via two magnificent stone and wood staircases. A wrought iron staircase attached to the back of the building was installed in the late 1950's as a fire escape. Currently the building is backpacker accommodation for seasonal fruit pickers who travel through the region. A few drywall offices are found on the ground floor, together with a large kitchen.

The second building comprise of a large wood and sheet iron shed, 6,000 square metres roofed area, and is tight against the stone building. The shed has two sets of sliding shed style doors where tractors and trailers drove in to deliver night picked grapes on cement floors in this 9 metre high structure.

The plan:

The stone building's ground floor will be turned into open plan offices for the winery with separate entrances to the back (1,000m2). The front part of the ground floor will be a six star reception area with wine and champagne bar (1,000m2); three small specialist shops complete the ground floor. The rest of the building will comprise of one and two bedroom guest suites, all with magnificent views of the vineyards and distant hills. They propose 10 one bedroom and 5 two bedroom suites per floor. The structure is sandstone with a

wooden floor and metal sheet roof.

The wooden shed will have two separate uses:

1.) Half will become a cooking school with auditorium for 200 people, cool rooms and open industrial kitchen with tasting area. 2)

2.) The second half will be an ultra modern stainless steel winery where an Australian version of the famous German Riesling will be crafted. This part will also act as an art gallery, combining modern winery with art. The wooden structure cannot be altered, however, a steel sub frame inside the shed will host all the new building elements of both the cooking school and the winery.

The architect is frustrated by the complications of both the heritage listings and the structural stability requirements. The project manager, who wants to do the right thing, appoints your firm to do an assessment of what will be required for the proposed development to be structurally compliant.

a) In explaining the role of a building surveyor, describe how you would go ahead about checking each of the above structures, to satisfy the loads and actions to which it may be reasonably subjected to;

b) What actions must be taken to maintain structural stability in the event of a fire, to allow occupants to evacuate to a safe place.

c) Please describe the required Fire safety and fire resistance ratings for each of the buildings.

Assessment Due Date
Week 4 Friday (1 Dec 2017) 11:45 pm AEST

Return Date to Students
Week 6 Friday (22 Dec 2017)

Weighting
25%

Assessment Criteria

Question 1
Accuracy and relevance of information, application of knowledge, language and grammar used in answering questions.

a)	4
b)	1
c)	2
d)	4

Question 2
Accuracy and relevance of information, application of knowledge, language and grammar used in answering questions.

a)	5

b)	3
c)	3
Presentation	1.5
Referencing	1.5
Total	**25**

Referencing Style

- Harvard (author-date)

Submission
Online

Learning Outcomes Assessed

- Interpret and apply the National Construction Code (NCC) for Building Class 2 to 9 projects

Graduate Attributes

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

2 Written Assessment

Assessment Type
Written Assessment

Task Description

Description:

A developer is proposing to build a single storey warehouse 60m wide x 100m deep with an attached three storey office building 20m x 20 m, centred at one end of the building. The construction of the warehouse is to be steel framed with metal cladding, a metal roof and a concrete floor slab. The office building is to be constructed using prefabricated concrete tilt-up walls, steel framing and a metal roof.
The front of the office building is on the street boundary and the buildings are to be located on an allotment that is 80 metres wide x 130 metres deep. It is proposed that the warehouse will be located 3 metres away from one of the side boundaries.
You will be emailed a sketch of this building. In relation to this development, answer the following questions.

Question 1

a) Classify the buildings, determine the type of construction and then describe what fire resistance ratings are required for the external walls, and the floors of this building. Mark on the sketch provided, where you would expect to find fire walls and what their FRL would be. Describe how you would check if a proposed material or building system to be used for these fire walls would actually achieve the fire resistance ratings that are required?

b) Assuming the office building is not to be sprinklered, discuss what fire hazard properties are required for any floor materials proposed to be used throughout this building and explain why these are required and how you would know if a particular floor material from a supplier would actually meet the requirements?

c) The warehouse has a total floor area of 6,000 square metres, which exceeds the maximum compartment size permitted under the BCA. Describe how the developer can modify the proposal so that it will comply with the compartmentation and separation requirements of the BCA. Support your answers with appropriate references, including to relevant clauses in the BCA or referenced Australian Standards.

Question 2

a) Calculate the number of exits required for each of these buildings and describe how you would go about checking that their location and widths would be adequate to enable the occupants to evacuate safely in an emergency.
b) What is the maximum travel distance permitted from an individual office to an exit in this building and how is it measured? Illustrate this on a copy of the sketch provided.
c) What do you understand a 'required exit' and a 'horizontal exit' to mean and where would you expect to find.

Assessment Due Date
Week 7 Wednesday (3 Jan 2018) 11:45 pm AEST

Return Date to Students
Week 9 Wednesday (17 Jan 2018)

Weighting
40%

Assessment Criteria

Question 1
Accuracy and relevance of information, application of knowledge, language and grammar used in answering questions.

a)	9
b)	6
c)	6

Question 2
Accuracy and relevance of information, application of knowledge, language and grammar used in answering questions.

a)	8
b)	4
c)	4
Presentation	1.5
Referencing	1.5
Total	**40**

Referencing Style

- Harvard (author-date)

Submission
Online

Learning Outcomes Assessed

- Assess design documentation for compliance with building legislation including Workplace Health and Safety, and Disability Discrimination laws, and Australian Standards

Graduate Attributes

- Communication
- Problem Solving

- Critical Thinking
- Information Literacy
- Information Technology Competence
- Ethical practice

3 Written Assessment

Assessment Type
Written Assessment

Task Description

Description

Using the building outlined in Assessment item 2, discuss the following in relation to fire safety provisions for that project, providing appropriate BCA or other references to explain how you arrived at your determinations:

Question 1

a) Describe what firefighting equipment you would expect to find in this building for the occupants to use to undertake an initial attack on a fire, to facilitate the needs of the fire brigade when fighting a fire, and to control development and spread of a fire so that the occupants can evacuate the building without injury. Where would you expect this equipment to be located?
b) What other fire safety systems would you expect to be used in this development to alert the occupants of a fire in the building and to protect them from the effects of smoke while they are evacuating to a safe place?
c) Once the building is completed and occupied, how is the safety of building occupants maintained for the life of the building?

Question 2

Assume you are an office employee who has been injured in a car accident and are now confined to a wheelchair. Describe the accessible features that you will need to be incorporated into this building in order for you to be able to continue to be employed and use this building.

Assessment Due Date
Week 12 Wednesday (7 Feb 2018) 11:45 pm AEST

Return Date to Students
Exam Week Friday (16 Feb 2018)

Weighting
25%

Assessment Criteria

Question 1 Accuracy and relevance of information, application of knowledge, language and grammar used in answering questions.	
a)	5
b)	5
c)	5
Question 2 Accuracy and relevance of information, application of knowledge, language and grammar used in answering questions.	7
Presentation	1.5
Referencing	1.5

Total	**25**

Referencing Style

- Harvard (author-date)

Submission
Online

Learning Outcomes Assessed

- Know and apply the enforcement provisions under current building legislation.

Graduate Attributes

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

4 Online Quiz(zes)

Assessment Type
Online Quiz(zes)

Task Description
Online quiz will include muliple choice questions.

Number of Quizzes
10

Frequency of Quizzes
Other

Assessment Due Date
Exam Week Thursday (15 Feb 2018) 11:45 pm AEST

Return Date to Students
Exam Week Friday (16 Feb 2018)
It is returned automatically by the system

Weighting
10%

Assessment Criteria
Your answer will be automatically marked by the system.

Referencing Style

- Harvard (author-date)

Submission
Online

Learning Outcomes Assessed

- Interpret and apply the National Construction Code (NCC) for Building Class 2 to 9 projects
- Assess design documentation for compliance with building legislation including Workplace Health and Safety, and Disability Discrimination laws, and Australian Standards
- Know and apply the enforcement provisions under current building legislation.

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Information Technology 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