

CPCCBC6001

APPLY BUILDING CODES AND STANDARDS TO THE CONSTRUCTION PROCESS FOR LARGE BUILDING PROJECTS

WORKBOOK

Participant name	Chris Olivier
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FOR THE PARTICIPANT
Instructions
- You will complete written activities as outlined on the following pages. You must attempt all questions and provide enough detail in your responses to demonstrate your knowledge. - The timeframe for these tasks will be established by your Assessor or Training Plan, but additional time may be allowed upon negotiation with the Assessor. - You must complete all questions unassisted by the Assessor or other personnel but may refer to reference material as needed. All questions must be answered correctly for a 'Satisfactory' assessment outcome to be awarded. - An oral examination may be allowed under certain circumstances, whereby your answers will be documented by another party. - Any written questions that are incomplete, or not answered satisfactorily will need to be completed again after further training support. - If you answer a question incorrectly but modify your response, put your initials next to the written change (or the Assessor must initial a verbal change).
Resources required
Pen

FOR THE ASSESSOR
Instructions
- Where oral examination has occurred, ensure that this is acknowledged in writing (e.g. FT001 and Assessor Comments) - All questions must be satisfactorily demonstrated by the Participant for a Satisfactory determination (indicated by an Assessor tick to the right of the question). - Assessors are to complete marking in pen of a different colour to the Participant. - If the Participant verbally modifies their response, write in the modified response verbatim and put your initials next to the written change.

ASSESSOR COMMENTS

As necessary, outline:

- Details on reattempts, alternative arrangements or reasonable adjustments made.
- Where a Participant is deemed 'Not Satisfactory', provide recommendations for future training.

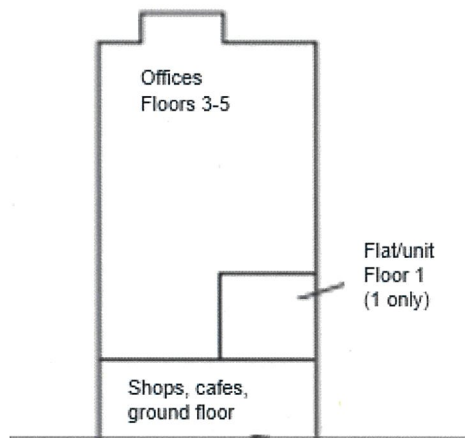
NOTE

At times, you will be provided with a specific business context to which you must respond, otherwise it is anticipated that you will use a workplace of your choosing (your own, or hypothetical) to provide the context to the task.

At all times, the responses in your assessment must reference **Australian** (Queensland or Federal) documentation, including legislation, regulations, codes of practice, standards and guidance publications.

ACTIVITY 1

Access the NCC via the internet to determine the Building Classification/s that apply to the building diagram below. The building is to contain offices in the upper floors, one caretaker flat on the first floor and shops and cafes on the ground floor. Explain your findings below.



Answer

Office floors 3-5: Class 5 which is utilised for business or professional purposes,
Flat/Unit: Class 4 as it forms part of a building that is a dwelling / residence within a non-residential building.

Shops/ Cafes: Class 6 as it is a shop used for the retail sales of goods / provision of services.

**Satisfactory
Outcome**



ACTIVITY 2

Access the NCC via the internet to locate the requirements applicable to a building development in the Brisbane area, containing 6 sole-occupancy units, two (2) on each level, each being a separate dwelling.

This building includes one (1) basement level designated for car parking.

The proposed building structure requires reinforced concrete floors and columns.

Document your findings or where in the NCC the information can be located.

Building Description

Classification

The basement is a class 10 whereas the 6 sole occupancy units are class 2.
Class A Construction C1.1

Rise in Storeys

3 above ground
C1.2

Number of Storeys

3 storeys
C1.2

Type of construction

Class A

Climate Zone and description

Climate Zone 2 – warm, humid summer, mild winter
Climate Zone map - ABCB

Fire resistance and stability

Locate fire resistance information

Part C1.1

2. General Requirements

2.1 Exposure to fire-source features

(a) A part of a building element is exposed to a fire-source if any of the horizontal straight lines between that part and the fire source feature, or vertical projection of the feature, is not obstructed by another part of the building that-

(i) has an FRL of not less than 30/-/-; and

(ii) is neither transparent nor translucent

Compartmentation and fire separation

Part C2 – Compartmentation & Separation Part 3.7.1 – Fire Separation

Fire hazard properties of materials, assemblies, fixtures and linings
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Specification 7 – Fire Hazard Properties Table S7C2 & linings S7C3

Material requirements

Reinforced concrete requirements relative to Australian Standards
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Part 3.2.5 Vol 2 NCC Amendment 1 Part 3.2.3 Concrete & Reinforcing Part 3.2.3.1 Concrete Part 3.2.3.2 Reinforcement
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Glazing requirements specifically for windows, sliding doors with frames and balconies.
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Part 3.6 Glazing Part 3.6.4.1 Doors
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**Satisfactory
Outcome**



ACTIVITY 3

The building discussed in ACTIVITY 2 includes one (1) basement level designated for car parking.

Provide information required for

- Bored piling to retain the soil and enable basement walls.
- Work Health and Safety
- Water proofing
- Water ingress

Document your findings or where the information can be located.

Bored piling to retain soil and enable basement walls

AS 2159 Piling Design & Installation

Sets minimum requirements for design, installation and testing

Work Health and Safety

Workplace Health & Safety Act 2011

Provides a nationally consistent framework for health and safety to ensure a safe working environment.

Water proofing

AS 3740.2021

Part 10.2 of NCC

Sets out the requirements for materials, design and installation of water proofing.

Water ingress

Part F1 of NCC

Details how to minimise the risk of water leaking into or accumulating with a building which can cause unhealthy conditions or damage building elements.

**Satisfactory
Outcome**

