

CPCCBC4014A

PREPARE SIMPLE BUILDING SKETCHES AND DRAWINGS

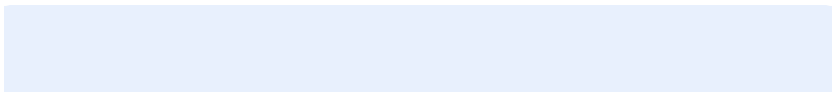
THEORY EXAM INSTRUCTIONS

- This exam will occur under standard assessment conditions.
 - An oral examination may be allowed under certain circumstances. Answers will be documented and FT003 (Oral examination declaration form) must be completed.
- Participants must provide enough detail in their responses to demonstrate their knowledge and skills.
- Please fill in the details below, providing your name, signature and date of assessment.
 - Your signature acknowledges that this is your own work.
- If a participant initially answers a question incorrectly but modifies their response, they must follow the instructions below:
 - If a participant changes their response in writing, they must put their initials next to the written change.
 - If a participant changes their response verbally, this must be noted on the exam paper by the assessor.

Participant name Barbra McCandlish

Participant signature 

Assessor name _____

Assessor signature 

Date 29/05/2019

Number of questions	Number of questions answered correctly	Satisfactory?	
		Yes	No
23		☐	☐

ASSESSOR COMMENTS

- Q1. Identify three (3) two-dimensional drawings/sketches that may be used to clarify or communicate ideas to clients or other parties. For each drawing/sketch, identify four (4) key features that may be shown.

Answer

Drawing/sketch type	Key features
Concept Sketch	The size of the structure, The style of the structure, The materials used in the structure, Your ideas
Floor Plan	The layout The room and sizes of same Positioning of the spaces Where the windows and doors are
Sectional View	The structure and its reinforcing What the floor is made of Where the bearers are How many levels and the heights

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- Q2. Name two (2) advantages of a three-dimensional sketch/drawing.

Answer An ideal way to show exactly how it will look once built and how each surface/room/materials work together to complete the picture

☐

- Q3. Name one (1) individual you might contact to establish the scope and standard of the job being undertaken.

Answer The client

☐

Q4. You need to inspect the relevant area to take measurements for your drawings/sketches. Identify two (2) safety requirements you would need to observe on site.

Answer ☐

Site risk assessment Site risk controls
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Q5. Identify two (2) types of tools/equipment you would use when inspecting the area to take measurements.

Answer ☐

Measuring wheel Spirit level

Q6. Identify two (2) types of tools/equipment you might need when completing sketches/drawings.

Answer ☐

Clipboard and paper Digital camera

Q7. What action should be taken if any of the tools/equipment identified in Q5. and Q6. are found to be defective? Tick your response.

Answer ☐

Choice	Possible Answers
☐	Report, Record
☐	Stop, Report, Record
☒	Stop, Tag, Report, Record
☐	Stop, Fix, Report, Record

Q8. True or False (Tick your response): It is best practice to double check measurements before recording them.

Answer ☐

☒	True
☐	False

Q9. Explain the purpose of the scale on sketches/drawings.

Answer Sot that they can be drawn in proportion

☐

Q10. You have measured a wall that is 2.4m high. Using a scale of 1:100, what size will this be drawn? Provide your answer in mm. Show your workings.

Answer 2.4mm x 100mm = 240mm (24cm)

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Q11. Explain the purpose of a key or legend on sketches/drawings.

Answer 'They help keep drawings clear and easy to read. They should be easily recognisable by others involved in the project.

☐

Q12. Which of the following are true about drawing contours?
Tick all that apply.

Answer

Choice	Possible Answers
☒	Equally spaced contour lines indicate uniform slope
☐	Closely spaced contour lines indicate flat surface
☒	Closely spaced contour lines indicate steep ground
☒	Concentric closed contours with decreasing values toward the centre indicate a pond
☐	Concentric closed contours with decreasing values toward the centre indicate a hill

☐

Q13. Identify the Volume and Parts of the NCC that relate to metal sheet roof cladding for Classes 1 and 10, and Classes 2 to 9.

Answer

Classes 1 and 10	Classes 2 to 9
Vol 2 Part 3.5.1	Vol 1 Spec B1.2



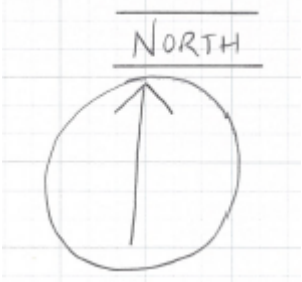
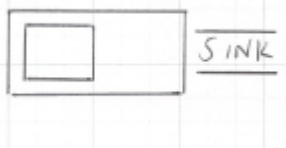
Q14. Which Australian Standard is referenced in the NCC with regards to the requirements for the design and installation of metal sheet roof cladding?

Answer AS1562.1



Q15. Sketch the following standard design symbols.

Answer

Item	Sketch
Compass (North)	
Sink with one bowl	
Stairs	
Toilet	



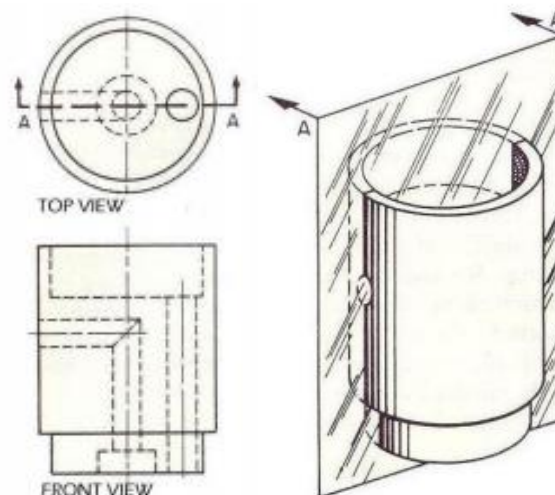
Q16. Explain the meaning of the abbreviations in the table below.

Answer

Abbreviation	Meaning
BK	Brick
CBD / CPD	Cupboard
DP	Damp proof)
INSUL	Insulation
KIT	Kitchen
MSB	Main Switchboard
PBD	Plasterboard
RWT	Rainwater tank
SHR	Shower
TEL	Telephone
WC	Water Closet



Q17. True or False (Tick your response): The dashed/chain lines on the section view shown below represent the portions that have been in contact with the cutting plane.



Source: https://www.mcvts.net/cms/lib/NJ01911694/Centricity/Domain/131/Section_Views.pdf

Answer

☒	True
☐	False



Q18. Explain the use of hatching lines for sectional drawings.

Answer The hatching lines represent the material type which is being cut (connecting with the cutting plane). The legend illustrates this also.

☐

Q19. True or False (Tick your response): In an offset sectional drawing, the cutting plane does not travel in a straight line.

Answer

☒	True
☐	False

☐

Q20. Which of the following information should be included in the title block for a sketch/drawing? Tick all that apply.

Answer

Choice	Possible Answers
☒	Client details
☒	Contact details for person who prepared drawings
☒	Date drawing was completed
☒	Drawing number
☒	Drawing title
☒	Job number
☒	Project name and address
☒	Revisions / Amendments (if applicable)
☒	Scale

☐

Q21. True or False (Tick your response): Amendments usually have to be signed or initialled by both the builder and the client to show they both agree.

Answer

☒	True
☐	False

☐

Q22. Explain why it is good practice to have a single repository for sketches/drawings.

Answer ☐ It is important to keep clear and concise records and this central point is a reference point for all previous revisions of the plans to be kept together on file (full history).

Q23. Name the Regulation and identify the section that outlines the requirement for structure designers to produce a safety report. Briefly describe the requirements.

Answer ☐

Section of Act	Requirements
Work Health and Safety Regulation 2011 Chapter 6.2 Construction work	The designer of a structure or any part of a structure that is to be constructed must give the person conducting a business or undertaking who commissioned the design a written report that specifies the hazards relating to the design of the structure that, so far as the designer is reasonably aware. (a) create a risk to the health or safety of persons who are to carry out any construction work on the structure or part; and (b) are associated only with the particular design and not with other designs of the same type of structure.