

CPCBC4014A

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 Massimiliano Carante

Participant signature



Assessor name

Assessor signature

Date 21/05/2019

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 sketches	Ceiling heights and variation; Doors; Light fittings and power supplies; Services; Wall penetrations; Walls
Floor Plan	Shows the layout/arrangement of rooms and other parts of a house interior
Sectional views	view of the house or structure after it has been cut vertically at some point to show the detail of structural parts and how they are to be built or assembled



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

Answer Provide a more realistic picture of space and there are a number of programs available to develop them



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

Answer Client, supervisor



- 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 ☐

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

Answer ☐

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

Answer ☐

- 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
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☐

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

Answer Buildings are drawn in proportion to the actual measurement of the object which is known as the scale of the drawing.

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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 24mm

☐

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

Answer To Record essential information on the drawing using symbols and abbreviations according to standard drawing conventions

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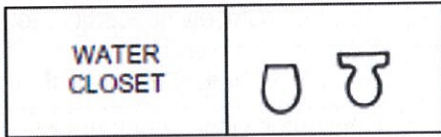
Q13. Identify the Volume and Parts of the NCC that relate to metal sheet roof cladding for Classes 1 and 10, and Classes 2 to 9.

Answer	Classes 1 and 10	Classes 2 to 9	☐
	Volume 2, parts 3.5.1.0 and 3.5.5.0	Volume 1, parts B1.4 and F1.5	

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	AS 1562	☐
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Q15. Sketch the following standard design symbols.

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

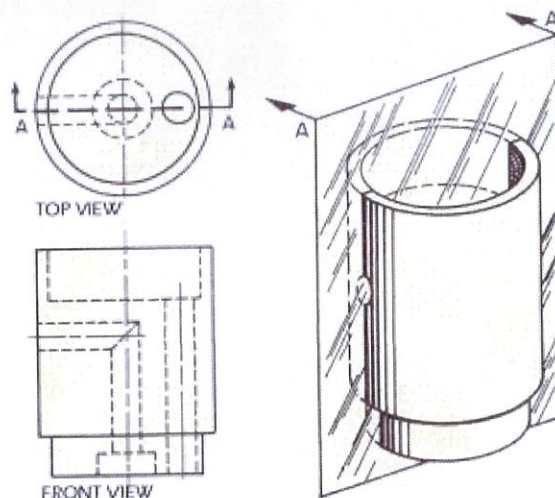
Q16. Explain the meaning of the abbreviations in the table below.

Answer

Abbreviation	Meaning
BK	Brick
CBD / CPD	Cupboard
DP	Down Pipe
INSUL	Insulation
KIT	Kitchen
MSB	Master Switch Board
PBD	Plasterboard
RWT	Rainwater Tank
SHR	Shower
TEL	Telephone
WC	Water Closet

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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 in contact with the cutting plane ☐

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 have a central location where documents are stored to ensure there is a reference point to check that the sketches/drawings being used are the most current.
The title block of a document provides the history of that document, but not if any future changes have been made.



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
In Queensland: Work Health and Safety Regulation 2011 s295	The designer of a structure must give the PCBU who has commissioned the design a written report that specifies the hazards relating to the design which create a risk to those carrying out construction work

