

CPCCBC4007A

PLAN BUILDING OR CONSTRUCTION WORK

ASSESSMENT SUMMARY

The assessment activities for *CPCCBC4007A Plan building or construction work* cover all aspects of the unit of competency required. To demonstrate competence in this unit, a participant must undertake all tasks and complete them satisfactorily and consistently. For Apprentices and Trainees, this includes employer completion of the Employer Record Book (ERB).

Participants must read all the information given before starting any assessment task. The assessment tasks are intended to be equitable, fair and flexible. If a participant has any questions or requires alternative arrangements to be made such requests should be directed to their Trainer/Assessor, who should note such arrangements in the 'Assessor Comments' on the affected assessment. If a participant feels they are not yet ready to be assessed, they should discuss their options with their Trainer/Assessor.

To satisfactorily complete the assessment, the participant is required to answer all questions correctly and demonstrate their skills to industry standards. If a participant does not answer some questions or perform some tasks, they will be deemed 'Not Satisfactory' for the task and 'Not Yet Competent' for the unit of competency. The Trainer/Assessor is able to provide the participant with additional information on interpreting the assessment outcomes and provide guidance on the participant's options. Should a participant still be deemed 'Not Satisfactory' they will have the opportunity to undertake a supplementary assessment or appeal the result.

By signing the cover page for each assessment item, the participant acknowledges they understand the assessment instructions and requirements and consent to being assessed. The participant also verifies and assures the RTO that the work submitted is their own work.

Participant Name	Chloe McGregor
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Task	Assessment Results	
Theory Exam	☐ Satisfactory	☐ Not Yet Satisfactory
Practical Assessment	☐ Satisfactory	☐ Not Yet Satisfactory
Outcome for Unit of Competency	☐ Competent	☐ Not Yet Competent

Assessor Name	
Assessor Signature	
Unit Competence Determination Date	Click here to enter a date.

CPCCBC4007A

PLAN BUILDING OR CONSTRUCTION WORK

THEORY EXAM INSTRUCTIONS

- This exam will occur under standard assessment conditions.
 - An oral examination may be allowed under certain circumstances, whereby the Participant's answers will be documented by a party other than the Participant. This must be acknowledged in writing (e.g. FT001 and Assessor Comments)
- 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.
- Assessors are to complete marking in pen of a different colour to the Participant.
- 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

Chloe McGregor

Participant signature

emcgregor

Date

Click here to enter a date. 19/11/2019

Assessor name

Assessor signature

Date

Click here to enter a date.

Number of questions	Number of questions answered correctly	Task outcome (Tick)	
		Satisfactory	Not Yet Satisfactory
45		☐	☐

ASSESSOR COMMENTS	

Q1. Name one (1) document you might read alongside the contract to identify the following aspects:

- Material requirements
- Plant requirements
- On-site labour requirements
- Any unusual aspects of construction

Answer The document you might need to read alongside the contract is the specifications.

☐

Q2. Name the Act and identify the section that outlines the maximum deposit amounts that may be accepted by a builder before services are provided. Identify the maximum deposit amounts and the penalties for breaching such requirements.

Answer

Section of Act	Requirements and penalties
<i>Queensland Building and Construction Commission Act 1991 (Qld)</i>	Generally, if the cost of your building work is \$20,000 or more, the maximum deposit allowed is 5% of the total contract price (including labour, materials and GST). If the contract price is between \$3,300 and \$19,999, the maximum deposit is 10%. Receiving deposits larger than a regulated contract allows unlawful carrying out of building work. Carrying out building work without a nominee.

☐

Q3. Identify three (3) subcontractors you may engage for a job and the type of work they may undertake.

Answer

Subcontractor	Work
Electrician	An electrician arranges electricity to be connected; places wiring for lighting and power cables; fixes switches, installs power points and wires electrical system.
Plumber	The plumber organises water supply and installs pipes and drains. The install roof, guttering, fit taps, hot water systems and toilets. They also ensure that the downpipes are fitted and the sewer is connected.
Gas Fitter	Places gas pipes to appliances

☐

Q4. Which of the following methods may be used to find subcontractors for a project? Tick all that apply.

Answer

Choice	Possible Answers
☒	Advertising
☒	Networking
☒	Online searches
☒	Tenders
☒	Word of mouth

☐

Q5. Explain the importance of determining subcontractor or plant availability for a job.

Answer

It's very important for trades to be organised and available when determining the right trades for the job, as you can't have a painter organised before a plastering has been. The quickest way to determine a subcontractor's availability is to speak to them directly.

☐

Q6. Identify two (2) methods you might use to find a supplier for materials.

Answer

Two methods you might use to find a supplier for materials, is to make phone calls to find out who/where has good suppliers, or, liaise with known suppliers that are reliable and resourceful.

☐

Q7. Name two (2) factors that may impact on the availability of materials.

Answer

Two factors that may impact on the availability of materials is if you are working in a new area, you may like to try an additional supplier from the local area for an extra quote. However, you need to be mindful of any imported materials which need to be transported from interstate or overseas.

☐

- Q8. Australian Standards must be considered when selecting materials. Identify the Australian Standard (referenced in the National Construction Code) which relates to the requirements for interior lighting.

Answer NCC 2019, J6



- Q9. Identify two (2) types of plant that may be used for a building project and identify the type of work they may be used for.

Answer

Plant	Work
Cranes	A crane is a type of machine, generally equipped with a hoist rope, wire ropes or chains, and sheaves, that can be used both to lift and lower materials and to move them horizontally. It is mainly used for lifting heavy things and transporting them to other places.
Excavation	Excavation work generally means work involving the removal of soil or rock from a site to form an open face, hole or cavity using tools, machinery or explosives. Specific duties apply in relation to the higher-risk excavation, such as trenches, shafts and tunnels



- Q10. Identify two (2) types of equipment that may be used for a building project and identify the type of work they may be used for.

Answer

Equipment	Work
Ladder	Contractors would use ladders for numerous reasons, such as climbing up heights and to access roofs and etc
Wheelbarrows	Contractors would use wheelbarrows for numerous reason, such as moving heavy items and to remove dirt/rock and more to a more convenient location.



- Q11. Identify two (2) of the records you should keep when hiring plant and/or equipment.

Answer Two records that you should keep when hiring plant and/or equipment are records of the invoices and receipts associated with the hire of plant to ensure you receive deposits back.

☐

Q12. Name five (5) temporary services that need to be organised for a building site.

Answer

- There are numerous services that need to be organised for a building site, as per some example below. A temporary electrical pole/ power box built into its permanent position. If a slab is being poured on the ground, the power is brought on-site and the power board is put into its permanent place. Sometimes the location of the existing service will determine this. The setback distance and overhead or underground supply need to be considered. Water tapping to supply water to the site. This may be a short tapping (on the same side of the street) or a long tapping which requires piping under the road (if supply is on the other side of the street). Temporary fencing around the site so that the public does not have access. Barricades to meet the local municipal by-laws. If the site cut is over one metre, a barricade is erected to prevent public access. If the site cut is less than one metre, a temporary fence is erected. Waste bins used to dispose of rubbish/waste.

☐

Q13. True or False (Tick your response): Site accommodation should be provided where construction work occurs in a remote area.

Answer

☒	True
☐	False

☐

Q14. What is required of a builder before any person is allowed on a building site? Tick all that apply.

Answer

Choice	Possible Answers
☒	To check the person has a Construction Induction Card
☐	To check the person has the approval of the local council
☐	To check the person is wearing appropriate signage
☒	To keep a record of all inductions and all personnel on the site

☐

Q15. Who issues a construction induction card? Tick your response.

Answer

Choice	Possible Answers
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☐

☐	Australian Parliament upon fee payment
☐	Each site at the conclusion of a site induction
☒	Registered Training Organisations at the conclusion of training

Q16. Identify one (1) action you might take to facilitate site access for machinery.

Answer One action you might take to facilitate site access for machinery is to ensure that there is adequate room for trucks to stop and use lifting equipment such as, forklifts from the side of the road onto the site.



Q17. Identify the Volume and Sections of the NCC that relate to access to buildings for Classes 1 and 10, and Classes 2 to 9.

Answer

Classes 1 and 10	Classes 2 to 9
<u>NCC Volume Two</u> primarily applies to Class 1 (residential) and 10 (non-habitable) buildings and structures.	<u>NCC Volume One</u> primarily applies to Class 2 to 9 (multi-residential, commercial, industrial and public) buildings and structures



Q18. You should contact your local council to be approved for out of hours construction. Identify the required documentation for an application and the timeframe for approval.

Answer If it is necessary to conduct construction activities outside of the prescribed hours of 6.30am to 6.30pm Monday to Saturday, operators can apply to Council for a compliance assessment application for an out of hours construction approval.



To be eligible for an out of hours construction approval, the proposed construction works cannot be undertaken during the prescribed daytime or evening hours (6.30am to 6.30pm Monday to Saturday) due to legitimate reasons such as pedestrian or worker safety, health or traffic reasons; and there must be a condition stipulated on a Council development approval that requires the applicant to notify or obtain approval from Council for proposed out of hours construction works.

A minimum of 10 working days is required for Council to assess an application. This applies once all documentation is received and providing no further information or changes are required.

Q19. In addition to the permit from Q18. identify two (2) other permits you may need to obtain to undertake a building project.

Briefly describe the documents required for approval and who these should be submitted to for approval.

Answer

Permit	Documentation and approval body
<u>Lane or Road Closure Permit</u>	Documentation needed for "Traffic Management Plan for temporary lane/road closure (required)" and a copy of development assessment approval (if applicable). These applications need to be submit to your council and the QPS. A minimum of 20 working day to receive the outcome.
<u>Footpath Closure Permit</u>	Prepare the attachments required for your online application as Word, PDF or JPG files. Attachments may include: site plan sketch (required):identifying the location of the proposed work relevant dimensions of any proposed temporary structures Complete the Application/notice to Work on Council Property online form, and Council can process a well-made application within five working days.

☐

Q20. True or False (Tick your response): Project commencement date is always at the date the contract is signed.

Answer

☐	True
☒	False

☐

Q21. What document should be developed when purchasing supplies or construction materials?

Answer

The document should that should be developed when purchasing supplies or construction materials is a purchase order. The purpose of producing a purchase order is to provide an audit trail that can be followed by anyone.

☐

Q22. True or False (Tick your response): Every delivery should be physically checked against the delivery sheet.

Answer

☒	True
☐	False

☐

Q23. Who should be contacted if items are missing from a delivery?

Answer If any items are missing or damage from a delivery you should contact the supplier

☐

Q24. Name the Act and identify the section that outlines the requirement to implement hazard and risk management on site. Briefly describe the requirements.

Answer

Section of Act	Requirements
<u>Work Health and Safety Regulation 2011 (Qld)</u> Section 40:	The layout of the work area must allow for persons to enter, exit and move about without risk to health and safety. In order to access a site you must ensure your sub-contractors: Have a Construction Induction Card (White Card) and undergo a site induction.

☐

Q25. Identify one (1) regulation that an organisation's WHS policies and procedures must comply with.

Answer The Work Health and Safety Regulation 2011 (Qld) provides more specific detail about the requirements of the Act and outlines types workplace risks.

☐

Q26. What document should be followed when disposing of hazardous materials?

Answer When handling and disposing of hazardous materials, it is essential to follow any Safety Data Sheets (SDS).

☐

Q27. An asbestos removal control plan is required when more than ____m² of asbestos containing material is to be removed.

Answer Asbestos removal control plan is required when more than 10m² of asbestos containing material is to be removed

☐

Q28. True or False (Tick your response): A site assessment should be undertaken if contamination is known or likely to be present from the removal of existing services.

Answer

☒	True
☐	False

☐

Q29. True or False (Tick your response): Multiple projects can be planned using a single Gantt Chart.

Answer

☒	True
☐	False

☐

Q30. What are the advantages of hiring subcontractors to work across multiple nearby projects? Explain with an example.

Answer You should try to minimise skilled labour from moving off-site when there is work to be done on nearby constructions. This can save a great deal of time, as the subcontractors can work on the next job while waiting for another to complete. For example, if you have multiple jobs that are in are nearby, the trades can go between jobs sites to when they are needed. This way, the contractor is always busy and all jobs are being worked on.

☐

Q31. Provide one (1) example to explain why construction operations must be sequenced.

Answer

Construction operations must be sequenced to keep the flow of the construction as planned. For example, the plastering needs to be completed before the tiling can be completed, the tiling would then need to be completed before the electrical fit off and so on .



Q32. Which of the following should be considered as part of task sequencing? Tick all that apply.

Answer

Choice	Possible Answers
☒	Holidays
☒	Labour availability
☒	Plant availability



Q33. Order the following construction operations from 1 to 6 to form the most efficient sequence.

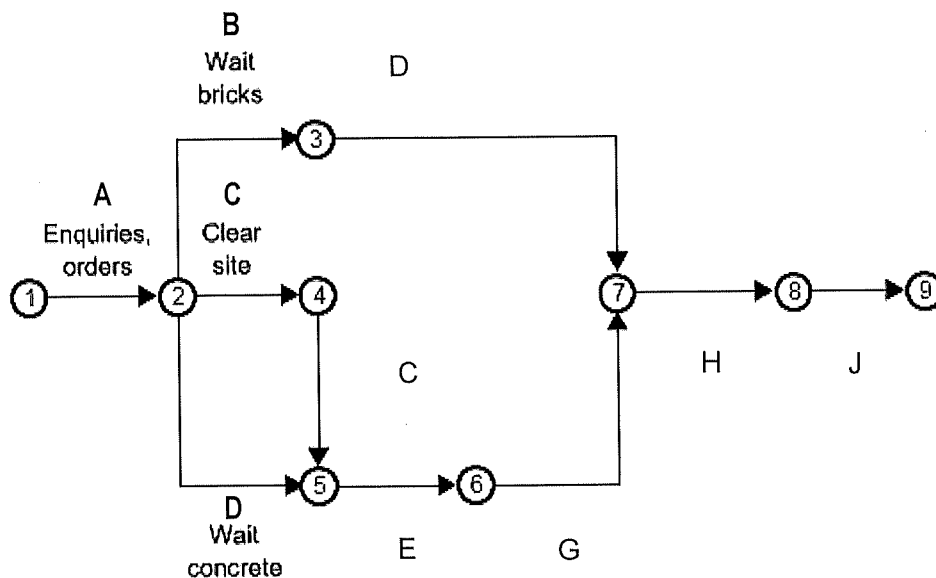
Answer

Step Number	Steps
2	Excavation of footings
3	Floor frame
6	Installing brick base
5	Roof trusses
1	Set out
4	Wall frames



Q34. Refer to the table below to complete the chart shown. Label the blank boxes with the appropriate Task ID letters.

Task ID	Task	Preceding event	Nodes
A	Make enquiries and order all materials required	Start	1
B	Wait for bricks, sand and cement to arrive	A	2
C	Clear vegetation from the site	A	2
D	Order concrete to be delivered	A	2
E	Dig the trench	C	4
F	Pour the footings	E	5
G	Footings curing time	F	6
H	Load the bricks on the site	B	3
I	Mix the mortar and lay the bricks	H	7
J	Clean rubbish from the area	I	8
	Finish	J	9



Answer

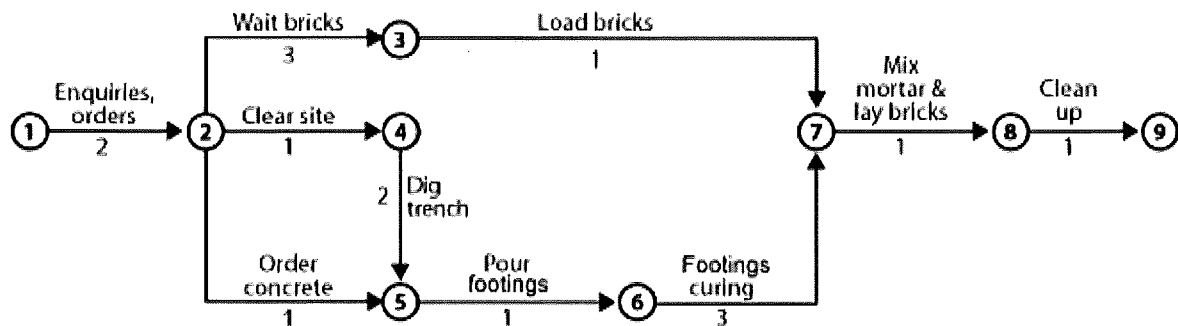


Q35. Name one (1) computer-based software package that may be used to prepare a project schedule.

Answer A PERT chart may be drawn by hand or by computer using a software package such as Microsoft Project.



Refer to the chart below to respond to Q36. to Q40. This chart shows the task sequence for building a brick fence.



Q36. What is the total time for the process if the top path is taken?
Tick your response.

Choice	Possible Answers
☒	8 days
☐	9 days
☐	11 days

☐

Q37. What is the total time for the process if the path through nodes 2, 4 and 5 is taken? Tick your response.

Choice	Possible Answers
☐	8 days
☐	9 days
☒	11 days

☐

Q38. What is the total time for the process if the path through nodes 2, 5 and 6 is taken? Tick your response.

Choice	Possible Answers
☐	8 days
☒	9 days
☐	11 days

☐

Q39. Describe the critical path.

Answer The 'critical path' is defined as the shortest completion time possible to complete a job.

☐

Q40. True or False (Tick your response): Even if the brick delivery in the top path was late by two (2) days, it is possible that the job will still run on schedule.

Answer

☒	True
☐	False

☐

Q41. Identify three (3) factors that may impact on the critical path of a project and cause it to need revision.

Answer Three factor that may impact on the critical path of a project and cause revision is, structures the supply chain of materials , needing to allow for delays and other supply chain problems And also caters for things like inclement weather cycles, other unpredictable problems and issues causing deferment and changes in the timelines, deferring supply of materials and labour

☐

Q42. Which major point(s) should you note when carrying out an inspection of neighbouring properties? Tick all that apply.

Answer

Choice	Possible Answers
☐	If the neighbours drive the right kind of car for that neighbourhood
☒	Structure and condition of any boundary fences
☒	Type and condition of all structures on the boundary
☐	Whether the houses are of Victorian heritage

☐

Q43. Why should you take photographs of site boundaries with neighbouring properties?

Answer ☐ If work is to affect neighbouring properties, you are required to compile a report on the condition of existing buildings and structures on adjacent site boundaries. Take photos to support your report – it will be helpful in the event of a dispute with a neighbour.

Q44. When should a condition report be given to owners of adjacent buildings? Tick your response.

Answer ☐

Choice	Possible Answers
☒	Before construction commences
☐	During construction
☐	After construction completes

Q45. When might a neighbouring property owner be required to refer to a condition report?

Answer ☐ Condition reports should be forwarded onto owners of adjacent buildings prior to commencing construction. That way, all parties are aware of the site status before work commences, and can easily identify if any damage has occurred through the construction process.