

CPCBC4005A

PRODUCE LABOUR AND MATERIAL SCHEDULES FOR ORDERING

ASSESSMENT SUMMARY

The assessment activities for *CPCBC4005A Produce labour and material schedules for ordering* 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	Nathan Wheeler
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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.

CPCBC4005A

PRODUCE LABOUR AND MATERIAL SCHEDULES FOR ORDERING

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

Nathan wheeler

Participant signature

Nathan Wheeler

Date

[Click here to enter a date.](#)

Assessor name

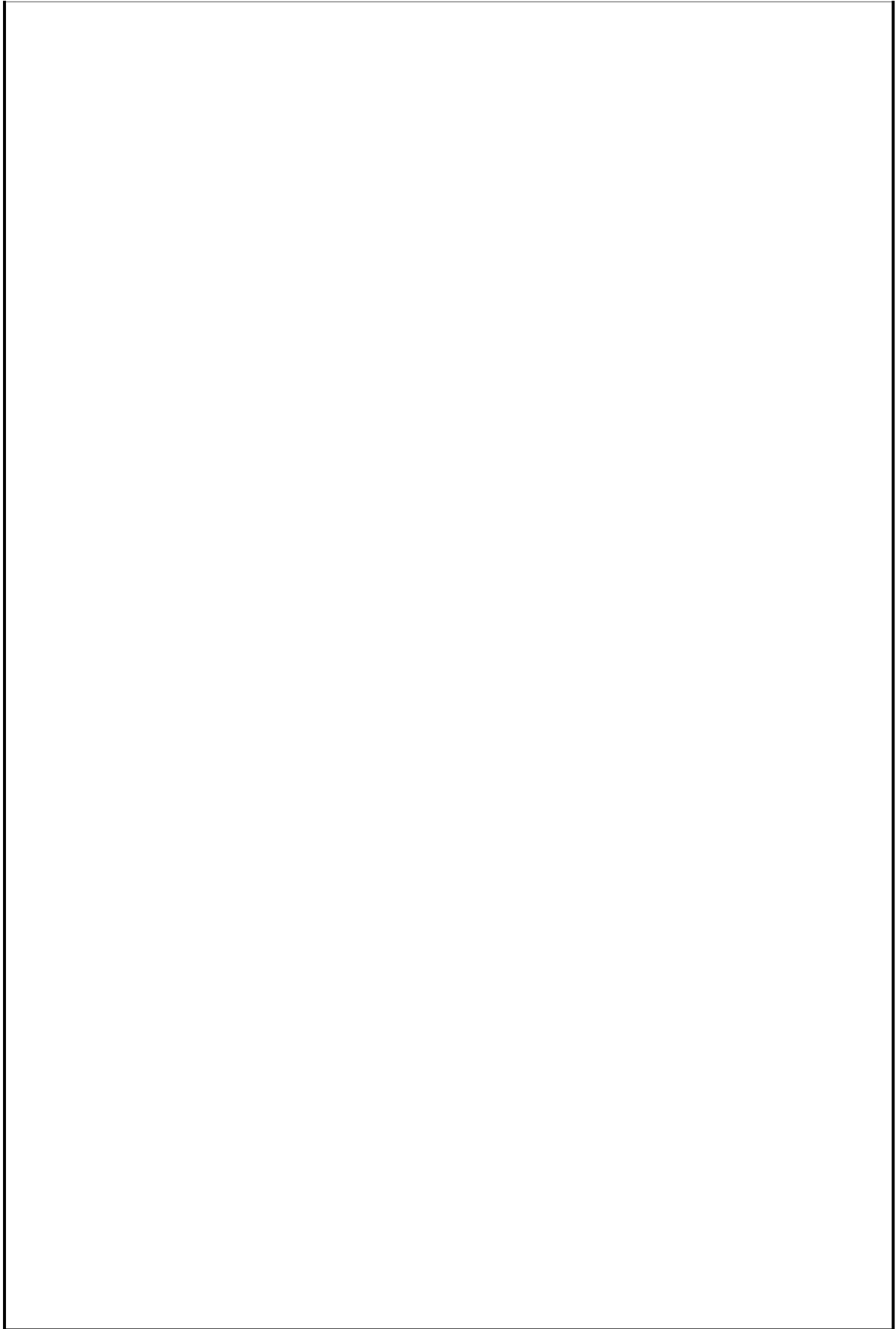
Assessor signature

Date

[Click here to enter a date.](#)

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

ASSESSOR COMMENTS

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1. Which of the following contractual requirements will influence orders and labour and material schedules? Tick all that apply.

Answer

Choice	Possible Answers
☒	Commencement date
☒	Completion date
☒	Contract price

☐

2. Identify three (3) suppliers and three (3) contractors that you may need to work with when undertaking a building project.

Answer

Suppliers	Contractors
Timber suppliers	Carpenters
Steel Fabricators	Tilers
Window Manufacturers	Electricians

☐

3. Explain the difference between employees and contractors and how they are influenced by scheduling.

Answer

- A builder can closely direct the work to be undertaken by an employee
- A contractor can decide what work they do, how it is to be carried out and the hours when the work is to be completed

☐

4. Identify one (1) local government authority and one (1) regulatory body that must be considered when producing schedules.

Answer

Brisbane City Council
QBCC

☐

5. Why should colour selections be included on the schedules?

Answer

it is important to factor in the owners' requirements for colour schemes and selections. Some colour requests may require a special order to be made.

☐

6. **True or False (Tick your response): If a project is in a heritage protected area, the council may specify the colours that should be used.**

Answer

☒	True
☐	False

☐

7. **Identify your local council's requirements regarding working hours and days. Explain how these requirements may affect your schedules.**

Answer

Local council working hours are between 6:30 am and 6:30 pm weekdays. Although these requirements are quite easy to work with, some scheduling will require altering in regards to public holidays.

☐

8. **Identify three (3) common drawings/specifications commonly used in the industry. Explain what information is provided by each document and how this influences labour and material schedules for ordering.**

Answer

Drawing/ Specification	Information provided for labour and material schedules
Engineering connector specifications	Information provided specifies what kind of timber connections are required in regards to fixings, these can affect labour schedules in regards to tie down and the various standards that must be adhered to.
Bracing plans	Material schedules are affected due to the specifications around bracing and the time it takes for install.

☐

Engineering footings specifications	Stronger concrete may have to be ordered and along with steel specifications in regards to footings.,
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9. **What three (3) things should a builder do when variations are made to a contract for a project?**

Answer

- Always put variations in writing
- Changes to any terms, including the cost, must be dated and signed by all the parties to the contract
- Submit an extension of time

☐

10. **Identify two (2) variations that may be raised by the client and explain how it would affect the schedules.**

Answer

Variation	Effect on schedules
Change of tile	Tile may be special order and will affect the bathroom completion time
Window size change	Further time required for the manufacture of a new window and push back lock up stage

☐

11. **Identify two (2) variations that may be raised by the builder and explain how it would affect the schedules.**

Answer

Variation	Effect on schedules
Further excavation required for footings	Time extension on further excavation would push the schedule for the entire works back

☐

Existing structural members are further damaged or decayed than originally thought.	Time extension due to repair
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12. Order the following steps from 1 to 5 to outline how a builder should select a supplier/contractor.

Answer

Step Number	Steps
1	Builder to seek quotes from suppliers/contractors
5	Builder to note supplier/contractor details and ordering times on schedule
3	Builder to accept a tender
2	Suppliers/Contractors tender prices back to the builder
4	Parties to sign agreement

☐

13. What is an 'overlay drawing'?

Answer

The aim of using overlay drawings is to show further detail on top of any existing plans

☐

14. Which of the following individuals may sketch overlay drawings?
Tick all that apply.

Answer

Choice	Possible Answers
☒	Architects
☒	Builder
☒	Draftsmen
☒	Engineers

☐

15. Identify three (3) details that should be included on a work order and reflected on the labour schedule.

Answer

Scope of work
Who its assigned to
What is the expected outcome



16. Identify nine (9) details that should be included on a purchase order.

Answer

1. Order date
2. Purchase order number
3. Supplier details
4. Delivery details
5. Supplier contact person
6. Project manager details
7. Product description
8. Terms and conditions
9. Total order cost

☐

17. What is a 'call forward sheet'?

Answer

A call forward sheet is a sheet used to track when materials are needed and when they should be ordered.

☐

18. True or False (Tick your response): A builder would usually complete all the purchase orders before preparing a call forward sheet.

Answer

☐	True
☒	False

☐

19. Identify two (2) approved plans that should be included with the site documents.

Answer

Approved permits
Building contract and relative documents

☐

20. Match the site files and definitions below by writing the appropriate letter next to each number in the centre column.

Answer	Document	Answers	Definition	
	1 Permits	1 - B	A May include engineering data	☐
	2 Quotes	2 - E	B Council inspectors may issue a stop work notice until these documents are produced	
	3 Reports	3 - A	C Changes requested using a standard form in writing. Need to be signed by both builder and client.	
	4 Specifications	4 - D	D List the materials to be used, fittings and fixtures to be installed, and types of finishing required.	
	5 Variations	5 - C	E Used to ensure purchase orders are developed using the correct price.	

21. In the table below, estimates for labour and actual costs for each trade are listed. Calculate the cost difference for each trade.

Answer	Trade	Estimate	Actual cost	Cost difference	
	Carpentry	10,000	8,500	-1,500	☐
	Electrical	3,000	4,250	1,250	
	Painting	4,000	3,900	100	
	Plumbing	8,000	8,000	0	
	Tiler	4,500	4,750	-250	

22. In the table below, the Prime Cost (PC) sums from a contract and actual costs for items are listed. Calculate the cost difference for each item.

Answer	Item	PC sum	Actual cost	Cost difference	
	Basin taps	100	130	30	☐
	Oven	2,500	1,500	-1000	
	Rangehood	500	900	400	
	Shower bases	250	265	15	
	Shower screen	400	350	-50	

Shower taps	150	120	-30
Stove	900	1,200	300

23. Where the actual costs are higher than the estimated costs due to a client variation, who is responsible to pay the difference?
Tick your response.

Answer

Choice	Possible Answers
☐	Builder
☒	Client
☐	Supplier

24. Where the actual costs are higher than the estimated costs due to price increases of materials, who is responsible to pay the difference?
Tick your response.

Answer

Choice	Possible Answers
☒	Builder
☐	Client
☐	Supplier

25. You are given the following table containing the costs for each month of the project.

Month	Estimated cost	Actual cost
March	\$36,450	\$38,980
April	\$65,560	\$62,350
May	\$62,450	\$64,960
June	\$61,340	\$61,050
July	\$40,590	\$38,990
August	\$42,650	\$42,550
September	\$35,780	\$34,750
Total	\$344,820	\$343,630

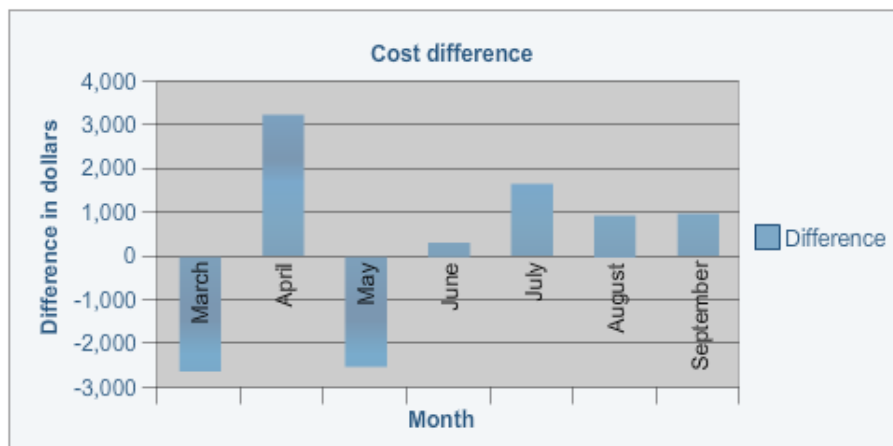
Using the information in this table, how would you find out in which month the builder actually spent the most? Tick your response.

Answer

Choice	Possible Answers
☒	Plot both the estimated and actual costs on a graph
☐	Plot the actual cost on a graph
☐	Work out the difference between the estimated and actual costs

☐

26. The following graph is a visual representation of the difference in each month.



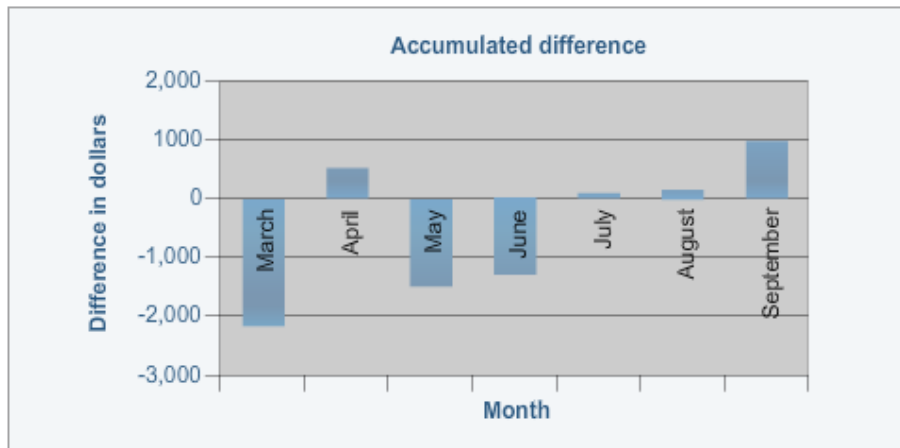
By looking at this graph can you see if the overall project was overestimated or underestimated? Tick your response.

Answer

Choice	Possible Answers
☐	No, you cannot see this directly from the graph
☒	Yes, you can see this from the graph

☐

27. The following graph is a visual representation of the accumulated difference across the project.



**Overall, was the project overestimated or underestimated?
Tick your response.**

Answer

Choice	Possible Answers
☒	Overestimated
☐	Underestimated



Refer to the following scenario and house plan to respond to Q28. to Q30.

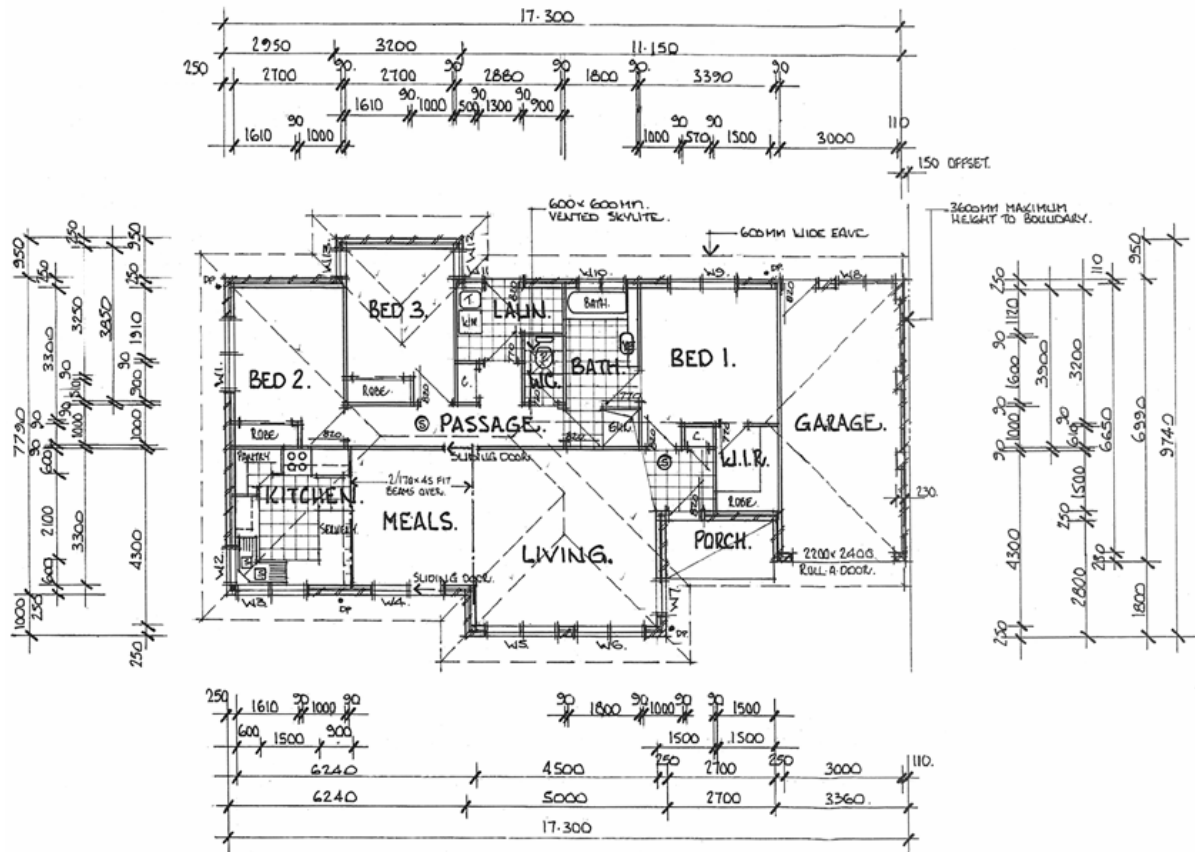
SCENARIO

You are a site supervisor of a small residential project, as outlined below:

- The building is to be constructed using brick veneer.
- The building has a floor area of 133 square metres including garage.
- The concrete slab floor with garage floor is incorporated.
- The building will be constructed using hand built wall frame and prefabricated roof trusses.
- The building will have a cement tiled roof and powder coated aluminium windows in timber reveals.
- The driveway and landscaping are to be provided.
- Services are available directly in front of the site.
- The site is almost flat and will only need a scrape with minimal excavation.
- The contract period is 120 days.
- The total job has been pre-costed at \$136,500.

FLOOR AREA:

PROPOSED RESIDENCE 111.59 SQ.M. 1200 SQ. FT.
 PROPOSED GARAGE 21.74 SQ.M. 234 SQ. FT.



28. Using the list of materials prepared, find the following information for four (4) materials of your choice:

Answer

Material	Lead-in time	Delivery date	Order date	Delivery requirements/ special considerations
Alloy windows	2 weeks	21/6/21	5/6/21	Deliver to undercover secure area
Bricks	1 week	17/6/21	15/6/21	Deliver to area designated by bricklayers

T i m b e r framing	3 days	4/6/21	1/6/21	Deliver to front of job as directed by carpenters. Deliver before 9 am
Concrete	2 days	3/7/21	1/7/21	Deliver prior to 7am. To be instructed by concrete pump operators

29. Describe the process of ordering the following materials for your project. Be sure to consider the things that need to be considered:

Answer

Material	Ordering process	Considerations
External cladding	Contact brick supplier	Confirm brick amount and delivery location
Wall frame	Contact timber supplier	Refer to plans to confirm lintels and any other kind of specified timber as per engineering and plans. Consider location and time of delivery.
Windows	Contact window supplier for manufacturing	Confirm sizing, time for manufacturing and delivery date. Factor these into schedules.



30. While excavating one corner of the project, you find the soil below is unsuitable for supporting the foundation. Refer to the relevant Building Regulator and complete their standard builder variation request documentation to be presented to the client.

Answer See attached



CPCCBC4005A PRODUCE LABOUR AND MATERIAL SCHEDULES FOR ORDERING

PRACTICAL ASSESSMENT INSTRUCTIONS

- The following practical assessment will require the Participant to complete work related activities.
- The Assessor will conduct observations of the Participant's work to determine whether they display sufficient practical skills and knowledge.
- Please fill in the details below – providing your name, signature and date of assessment.
 - The Participant's signature acknowledges that the Assessor provided clear instructions and the Participant understood what was required to complete this assessment.
- The Assessor may substitute a Practical Task with an alternate task of equal value.
 - Alternate tasks must be fully documented by the assessor in the Assessor Comments area.

Participant name Nathan Wheeler

Participant signature *Nathan Wheeler*

Date Click here to enter a date.

Assessor name _____

Assessor signature _____

Date Click here to enter a date.

Task	Task outcome (Tick)	
	Satisfactory	Not Yet Satisfactory

Task 1 (Occasion 1)	☐	☐
Task 1 (Occasion 2)	☐	☐

ASSESSOR COMMENTS

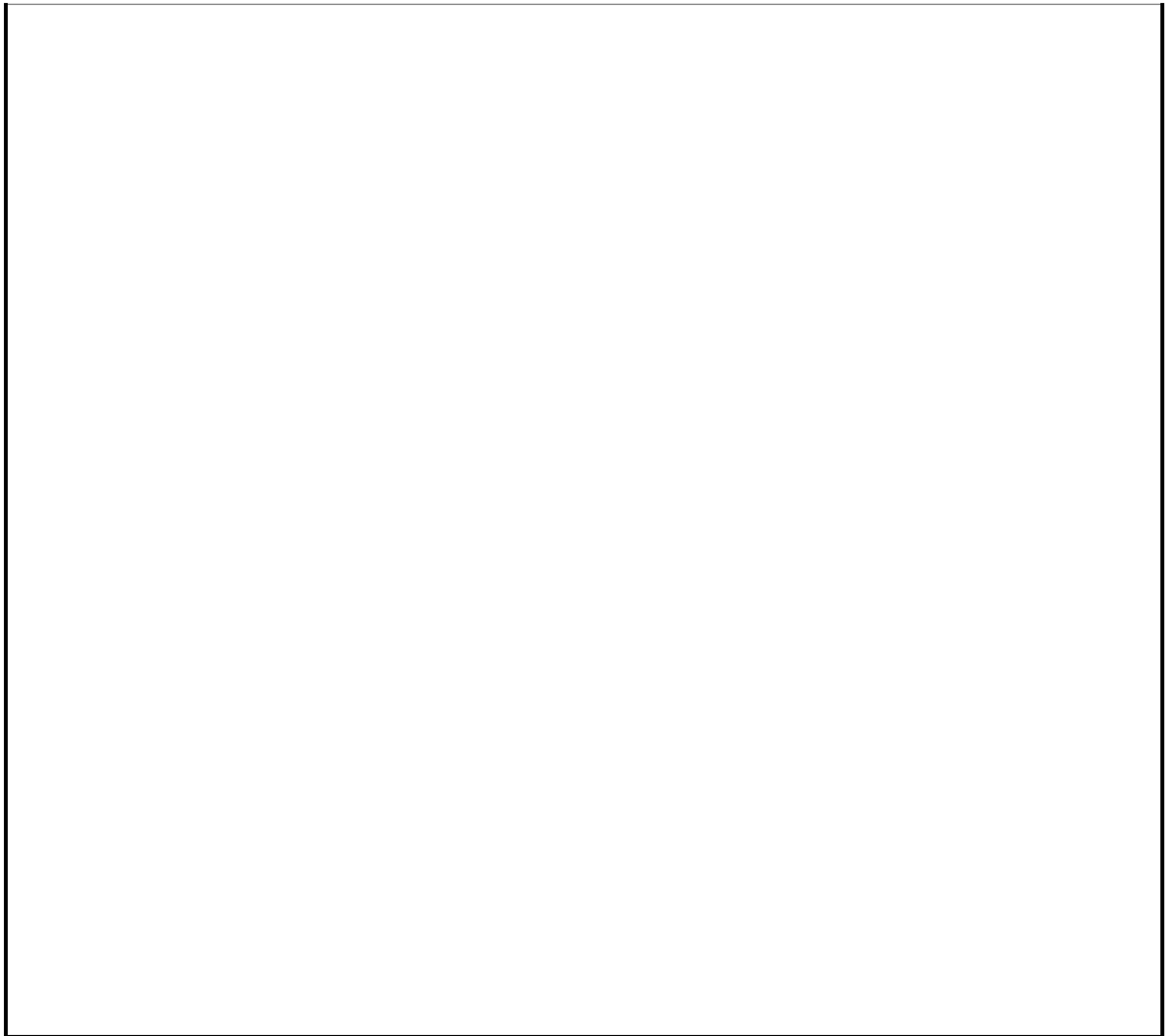
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Practical Task 1 (2X)		
Description of task: On two (2) occasions, a suitable observer is to verify the participant's ability to produce schedules of resource requirements so that orders can be placed for materials and labour for projects, and costs can be recorded and tracked as they are incurred. Occasion 1: Residential project Occasion 2: Commercial project The participant is to gather evidence of how they have completed each component of the Practical Task, which is to be submitted with this Practical Assessment sheet. Evidence to be submitted may include: - A copy of a material/labour schedule or supplier list for a project - A copy of a purchase order for purchasing materials or other resources - A cost report - Site condition reports or dilapidation reports - Contract documents - Call forward sheets - Variations The observer is to provide detailed comments on the tasks completed by the participant. The assessor is to verify the observer's comments in the Assessor Comments section, and provide the Practical Assessment outcome on the front cover of this document.		
Resources required: Contract documentation (including plans and specifications), computer.		
Assessment of task		
Name of participant:	Nathan Wheeler	
Name of observer:	Tom Wheeler	
Role of observer (Confirm suitability to sign)	Director	
Email address of observer	tom@twbuilders.com.au	
Signature of observer:		
Date:	Click here to enter a date.	
When completing the task, did the participant:	Tick if satisfactorily completed. Provide comments if left unticked.	
	1 st Occasion	2 nd Occasion
A. Consider all contract conditions in the schedules, including: - All contractual requirements - Local government and regulatory bodies' conditions of approval - Colour selections - Variations to contracts, raised by the client or builder	☒	☐

B.	Produce material and labour schedules, including: - Details of nominated suppliers and contractors in work schedules 1) Application of contract rates	☒	☐
C.	Produce relevant overlay drawings.	☒	☐
D.	Include contract details and instructions on orders.	☒	☐
E.	Prepare site files, including: - All necessary site documents, including plans and specifications - Preparation of call forward sheets, detailing all orders	☒	☐
F.	Analyse project costs against estimates during construction.	☒	☐
G.	Analyse approved variation costs.	☒	☐
H.	Provide a final project cost analysis.	☒	☐
I.	Maintain data files of standard costs, including: - Approved variation cost increases - Changes to standard plans, specifications, and cost files	☒	☐
J.	Effectively communicate using the following methods: - Verbally using language/concepts appropriate to cultural differences - Non-verbal communication	☒	☐
The Participant's performance was: ☒ Satisfactory ☐ Not Satisfactory			

OBSERVER COMMENTS

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