

CPCCBC4004

IDENTIFY AND PRODUCE ESTIMATED COSTS FOR BUILDING AND CONSTRUCTION PROJECTS

Practical Task 1

Description of task:

The participant must demonstrate the ability and knowledge to effectively estimate the cost of one (1) residential OR commercial building and construction project, ideally, the task will be undertaken for a workplace project, using workplace documentation, however, own templates can be used for cost calculations. Some templates are available for use as needed if workplace documents are not available. The assessor will be looking for evidence of:
estimate project costing from construction drawings, specifications and written information
list physical resources appropriate for the construction of the project
produce project cost using an appropriate software program.

- Establish project requirements
 - Read construction drawings and plans in conjunction with local regulations, relevant codes and standards to determine and document compliance requirements. *(template available – HO1)*
 - Confirm site features, type of building and method of construction, and specified building materials. *(template available – HO2)*
 - Determine and document site facilities, communication and temporary fencing requirements. *(template available – HO2)*
 - Determine and document waste removal costs including waste management site fees. *(template available – HO2)*
 - Determine and document other site specific statutory, approvals, permits or compliance costs. *(template available – HO2)*
- Calculate materials and labour costs.
 - Produce a materials and consumables quantity list and obtain a price from supplier. *(template available – HO3)*
 - Determine and estimate off-site production costs, including delivery. *(template available – HO4)*
 - Determine numbers of contractors, sub-contractors and employees appropriate for the project and work rates. *(template available – HO5)*
 - Estimate labour hours and calculate labour costs, including on-costs and worker insurance costs. *(template available – HO5)*
- Identify type and cost of physical resources.
 - Determine physical resources required for the project. *(template available – HO6)*
 - Determine limitations, conditions, operational costs and timeframes for hire of physical resources. *(template available – HO6)*
 - Obtain supplier prices, including transport of physical resources. *(template available – HO6)*
 - Identify, itemise and cost plant, equipment and machinery. *(template available – HO6)*
- Produce estimated project costs.
 - Review and document materials, consumables and off-site production costs and delivery charges.
 - Document labour costs inclusive of rates and entitlements. *(template available – HO5, HO9)*
 - Document costs of physical resources. *(template available – HO6, HO9)*
 - Apply organisational overhead recovery and margins. *(excel template available- HO8,HO9)*
 - Produce estimated project costs for inclusion in a tender or bill. *(excel template available- HO8,HO9)*
 - Manage and mitigate risks associated with estimating project costs. *(template available – HO7)*

These tasks may be simulated or real. 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. The Observer is to provide detailed comments on the tasks completed by the Participant (on the Observer Comments, overleaf). The Assessor is to verify the Observer's comments, noting their findings in the Assessor Comments (on the back of the Practical Assessment cover page) and provide the assessment outcome.

Resources required:

Workplace documents including current construction drawings and specifications, HR contractor files and rates, insurance information, Access to PC to research compliance requirements from NCC, council, state legislation including WHS and environmental protection requirements. Access to take-off software or similar technology to achieve requirements. Templates (workplace or RTO).

Observer details	
Name of observer:	PAUL ANTHONY BRAGG-GROW
Role of observer (Confirm suitability to sign)	COST PLANNING & ESTIMATION MANAGER
Email address of observer	paul.braggion@hutchies.com.au
Signature of observer:	
Date:	Select Date 21/5/2024

When completing the task, did the Participant:	Tick if satisfactorily completed. Provide comments if left unticked.
1 Establish project requirements.	
1.1A. Read construction drawings and plans in conjunction with local regulations, relevant codes and standards to determine and document compliance requirements. (template available – HO1)	☒
1.1B. Confirm site features, type of building and method of construction, and specified building materials. (template available – HO2)	☒
1.1C. Determine and document site facilities, communication and temporary fencing requirements. (template available – HO2)	☒
1.1D. Determine and document waste removal costs including waste management site fees. (template available – HO2)	☒
1.1E. Determine and document other site specific statutory, approvals, permits or compliance costs. (template available – HO2)	☒
2 Calculate materials and labour costs.	
1.2A. Produce a materials and consumables quantity list and obtain a price from supplier. (template available – HO3)	☒
1.2B. Determine and estimate off-site production costs, including delivery. (template available – HO4)	☒
1.2C. Determine numbers of contractors, sub-contractors and employees appropriate for the project and work rates. (template available – HO5)	☒
1.2D. Estimate labour hours and calculate labour costs, including on-costs and worker insurance costs. (template available – HO5)	☒
3 Identify type and cost of physical resources.	
1.3A. Determine physical resources required for the project. (template available – HO6)	☒
1.3B. Determine limitations, conditions, operational costs and timeframes for hire of physical resources. (template available – HO6)	☒
1.3C. Obtain supplier prices, including transport of physical resources. (template available – HO6)	☒
1.3D. Identify, itemise and cost plant, equipment and machinery. (template available – HO6)	☒
4 Produce estimated project costs.	
1.4A. Review and document materials, consumables and off-site production costs and delivery charges.	☒
1.4B. Document labour costs inclusive of rates and entitlements. (template available – HO5, HO9)	☒
1.4C. Document costs of physical resources. (template available – HO6, HO9)	☒
1.4D. Apply organisational overhead recovery and margins. (excel template available- HO8, HO9)	☒
1.4E. Produce estimated project costs for inclusion in a tender or bill. (excel template available- HO8, HO9)	☒
1.4F. Manage and mitigate risks associated with estimating project costs. (template available – HO7)	☒

Observer comments:

KANDY SUCCESSFULLY DEMONSTRATED HER
KNOWLEDGE OF MEASUREMENT & ESTIMATION
TO ME.

SHE HAS A FUNDAMENTAL UNDERSTANDING OF
SITE LOGISTICS REQUIRED TO PRICE A PROJECT
FROM START TO FINISH.

ANY ISSUES, PLEASE DON'T HESITATE TO REACH
OUT TO ME DIRECTLY.

TAKE CARE.