

## Assessment 2- Prepare take offs

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## Introduction

### Purpose of assessment

To demonstrate the ability to take off measurements and create database for estimates. Also, to demonstrate the ability to read and interpret plans and documentation.

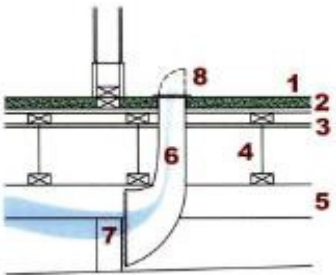
This assessment task accounts for 30% of total assessment.

### Assessment task

Assessment for this task will comprise a series of take offs as part of an overall project to produce the material quantities for the following building trades. Use the list of trades developed in Assessment task 1. Create drawings and/or take off sheets to show key measurements and details required for the detailed estimate. Make sure you use the correct symbols.

## Assessment 2- Prepare take offs

**Produce the material quantities, and show key measurements and details**

Key items	Description	Quantity	Unit	Rate	Wastage	Total
1. Concrete	Concrete Slab, 45mm concrete screed (15470×8670-3000×2420-750×4760) ×45mm	55.483 m <sup>3</sup>	m <sup>3</sup>			
 <div data-bbox="878 594 1252 653" style="border: 1px solid black; padding: 5px; display: inline-block;">45mm concrete screed</div>						
2. Carpentry	Top/ bot plates	120	Lm			
	Studs	350	Lm			
	Corner studs intersections	20	Lm			
	Door studs	30	Lm			
	Door heads	5	Lm			
	Noggings	120	Lm			
	Speed brace	55	Lm			
	Nails	1200	No.			
<b>Timber wall framing:</b> <ul style="list-style-type: none"> <li>• Typical timber stud wall framing.</li> <li>• Timber is F5 pine mgp10.</li> <li>• External walls total length 41.120m</li> <li>• Wall height (ceiling) 2.7m</li> <li>• Studs 450mm centres nominal size 90×38mm</li> <li>• 2 row of noggings nominal size 90× 38mm</li> <li>• Plates top and bottom nominal size 90×45 mm</li> <li>• Door studs nominal size 90×45mm</li> <li>• Door heads nominal size 90×45mm</li> </ul>						

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<b>3. Cabinetry</b>	Cabinetry for Kitchen	<b>12.50</b>	<b>lm</b>			
	Cabinetry for Cooktop	<b>23.80</b>	<b>lm</b>			




<b>4. Sanitary Plumbing</b>	Haigh 40mm PVC Telescopic Space Trap	<b>30</b>	<b>No.</b>			
	Connector Waste Pvc Abey 40mm Trap	<b>30</b>	<b>No.</b>			
	PVC DWV Pipe	<b>120</b>	<b>m</b>			
	100mm 88° M-F PVC DWV Plain Bend	<b>30</b>	<b>No.</b>			
	65mm 88° Female and Female PVC DWV Plain Bend	<b>10</b>	<b>No.</b>			
	40mm 40° Male and Female PVC DWV Plain Bend	<b>10</b>	<b>No.</b>			
	WC suite	<b>1</b>	<b>No.</b>			
	Kitchen sink	<b>1</b>	<b>No.</b>			
	Bath	<b>1</b>	<b>No.</b>			
	Laundry Trough	<b>1</b>	<b>No.</b>			
<b>5. Electrical</b>	Electrical cable	<b>600</b>	<b>m</b>			
	Switch	<b>15</b>	<b>No.</b>			
	outlet	<b>5</b>	<b>No.</b>			
	light	<b>20</b>	<b>No.</b>			

#### Wire Gauge

#### Wire capacity and use

6	60 amps, 240 volts; Central air conditioning unit, electric furnace
8	40 amps, 240 volts; Electric range, central air conditioning unit
10	30 amps, 240 volts; Window air conditioning unit, clothes dryer
12	20 amps, 120 volts; Light fixtures, receptacles or wall boxes
14	15 amps, 120 volts; Light fixtures, receptacles or wall boxes
16	Light duty extension cords
18-22	Alarm systems, doorbells, and thermostats

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6. Floor, wall and ceiling finishes	<b>Floor Tiles Supply</b>					
	Floor tiles	60m <sup>2</sup>	m <sup>2</sup>			
	Adhesive	30can(5kg)	can			
	Grout pre-mixed	4bags(10kg)	bag			
						
	Plasterboard – ceilings	120m <sup>2</sup>	m <sup>2</sup>			
	Plasterboard - walls	300m <sup>2</sup>	m <sup>2</sup>			
	Paper tape for corner stopping and joints	3 ×90 rolls	roll			
	Adhesive for fixing	3 × 1bucket (1kg)	bucket			
	Base-coat 45	4 ×1bag(20kg)	bag			
	Top coat	4 ×1 bucket(20kg)	bucket			
7. Painting	Walls-painting (2 layers)	300m <sup>2</sup> 10×1 bucket (4L)	m <sup>2</sup>			
	Ceilings-painting (2 layers)	120m <sup>2</sup> 9 ×1 bucket (8L)	m <sup>2</sup>			

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## Conclusion:

In conclusion, this assessment demonstrates demonstrate the ability to take off measurements and create database for estimates. Also, to demonstrate the ability to read and interpret plans and documentation.

## Reference

- CPCCBC4004A identify and produce estimated costs for building and construction projects learner resource
- <https://www.watercorporation.com.au/-/media/files/builders-and-developers/building/plumbing-handbook.pdf>
- <https://www.bunnings.com.au/?gclid=CI-1yfLamdYCFdoHKgodOrwGvA>
- Document from builders