



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

**NATIONAL CERTIFICATE
NOVEMBER EXAMINATION
QUANTITY SURVEYING N6
30 NOVEMBER 2016**

This marking guideline consists of 9 pages.

QUESTION 1

- 1.1
- Financial planning and cost control
 - Estimates of building costs
 - Drawing up of tender documents
 - Obtaining tenders
 - Checking of tender bill of quantities
 - Drawing up of interim valuations
 - Drawing up of final accounts
 - Costing of and advising on variations
- (Any 5 × 1) (5)
- 1.2
- For competitive tendering
 - For interim valuations
 - For costing of variations
 - For final account settlement
 - For ordering of materials
 - For settling of disputes
 - It is used as a legal document
- (Any 5 × 1) (5)
- 1.3
- Signed variation orders to quantity surveyor
 - Q.S. to make variations estimates (for budget)
 - May be included into interim payments
 - Final payment due with final certificate
 - Amount to be taken from contingency sum
 - Settlement with contractor/building surveyor
 - Day work items to be included
 - To be incorporated in final account
 - Q.S. to measure variation orders in detail (site visit or site meeting minutes)
 - Additions = extras
 - Omissions = savings
 - Item descriptions and rates taken from bill of quantities
- (Any 10 × 1) (10)
- 1.4
- Check side casts and tick
 - Check waste calculations and tick
 - Check figuring
 - Square figuring
 - Check squaring and tick
 - Check final answers and tick
- (Any 5 × 1) (5)
- [25]**

QUESTION 2

			2/π/1/4/	0.46	E.o. drilling in hard rock
	<u>Item</u>	<u>Reinf. Conc. PILES</u>		0.46	
		<u>Allow for the establishment of plant on site</u>		<u>0.30</u> ✓	✓
6.2/	<u>1</u> ✓	Plant to be set up at ✓ piles	6/π/1/4/	0.61	
				0.61	
				<u>0.30</u> ✓	
6.2/	<u>10.00</u> ✓	Aug. drill 455 - 610 Ø in stable ground in L.n.e ✓ 10 m	2/	<u>20.80</u> ✓	30Mpa r.c in 455Ø pile 20500 <u>300</u> 20800✓
		20500 23000			
		<u>10000</u> <u>10000</u>			
		10500 13000			
		<u>5000</u> <u>5000</u>			
		5500 8000	6/	<u>23.30</u> ✓	Do. In 610 Ø pile 23000 <u>300</u> 23300✓
		<u>5000</u> <u>5000</u>			
		500 3000			
6.2/	<u>5.00</u> ✓	Do. exc.. 10 m n.e 15 m ✓	2/π/	<u>0.46</u> ✓	Fmwk to round piles above g.l 300mm hi. A1✓
			6/π/	<u>0.61</u> ✓	
6.2/	<u>5.00</u> ✓	Do. exc. 15 m n.e 20 m ✓			
			2/8/	<u>21.00</u> ✓	12Ø H.s reinf. A1✓
2/	<u>0.50</u> ✓				
6/	<u>3.00</u> ✓	Do. exc. 20 m n.e 25 m ✓	6/8/	<u>23.50</u> ✓	16Ø Do A2 ✓
2/π/ 1/4/	0.46	E.o. drilling for c.a			
	0.46				
	<u>20.50</u> ✓	A1✓			
6/π/1/4/	0.61				
	0.61	A2			
	<u>23.00</u> ✓				
28 ANY [25]					

QUESTION 4**Marks for the following:**

1. SQUARING		
Side casts checked	✓	
Columns/page	✓	
Squaring	✓	
Decimals/lines	✓	
Squaring checked	✓	
Run-through	✓	(6)
2. ABSTRACTING		
Title/trade	✓	
Sub-sections	✓	
Order	✓	
Columns	✓	
Lines	✓	
Copy exactly	✓	
No ditto's	✓	
Reference and units	✓	
Reducing	✓	
Run-through	✓	
Working up	✓	
checked	✓	(12)
3. BILLING		
Heading	✓	
Unit ... → ...Amount	✓	
No abbrev	✓	
Ditto's	✓	
No decimals	✓	
Correct quantities	✓	
Summary	✓	(7)

[25]**TOTAL: 100**

<u>BASEMENT</u>		Unit	Qty	Rate	Amount Rand	Cent
<u>Bill no 1</u>						
<u>Earthworks:</u>						
1.	Excavate surface trenches not exceeding 2 m below basement level	M ³	5			
2.	Ditto in earth for basement not exceeding 2 m below ground level	M ³	63			
3.	Ditto,Ditto exceeding 2 m and not exceeding 4 m deep	M	18			
4.	Extra over excavation for carting away surplus materials	M ³	55			
5.	Risk of collapse to basement trenches not exceeding 1,5 m below basement excavation	M ²	4			
6.	Ditto to sides of basement excavation exceeding 1,5 m deep	M ²	42			
7.	Excavated for working space 320 mm away from basement excavation including fill in and ram not exceeding 500 mm deep	M ²	13			
8.	Ditto exceeding 500 and not exceeding 1,5 m deep	M ²	26			
9.	Ditto exceeding 1,5 and not exceeding 3 m deep	M ²	34			
10.	Keep excavation free from water	Item				
11.	Backfilling to sides of basement including ramming in layers	M ²	14			
Earthworks: Bill NO 1						
Carried to Summary					R	