higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

APRIL EXAMINATION

QUANTITY SURVEYING N5

6 APRIL 2016

This marking guideline consists of 8 pages.

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SECTION A

QUESTION 1

			✓				✓
	15,00 11,00	✓	C.s. of all deb, veg. mat. & rub. & prep. site for bld'rs. wrk.		24,88 1,22 0,29	✓	Excav. in ord. earth for bsmnt.trench n.e 2 m from bsmnt. level.
			✓ 9 000 + 2 x 3,000 = 15,000 m				✓ 29,760 - (4 x 1,220) 4,880 24,880 m ✓
			✓ 5,000 + 2 x 3,000 = 11,000 m				
	9,44 5,44 2,00		✓ Bulk excav. in ord. earth for . bsmnt. hole n.e. 2 m dp. from g.l.				
			9,000 + 2 x 0,220 = 9,440 m ✓ 5,000 + 2 x 0,220 = 5,440 m ✓		28,88 0,22 3,00		✓ B/fill to ext. sides of bsmnt. wls.
			✓				✓ 29,760
	9,44 5,44 1,15		Ditto,but exce. 2m n.e. 4m dp. 3,000 + 0,150 3,150 - 2,000 1,150 m ✓				-4 x 0,220 0,880 28,880 m ✓
					20,88 0,22 0,29		✓ Ditto, but to int. side of trench.
	29,76 3,44		✓ R.o.c. to sides of bsmnt. hole exce. 1,5m dp. From g.l.				✓ 20,000 + 4 x 0,220 0,880 20,880 m ✓
			2 x 9,440 = 18,880 2 x 5,440 = 10,880 29,760 m ✓				
			3,000 + 0,440 = 3,440 m ✓				
	20,00 0,29		Ditto, but n.e. 1,5m dp. from bsmnt. level. ✓				
			✓ 29,760 – 8 x 1,220 = 20,000 m				
			0,440 – 0,150 = 0,290 m ✓				
			(1)				(2)

(20 × 1) **[20]**

QUESTION 2

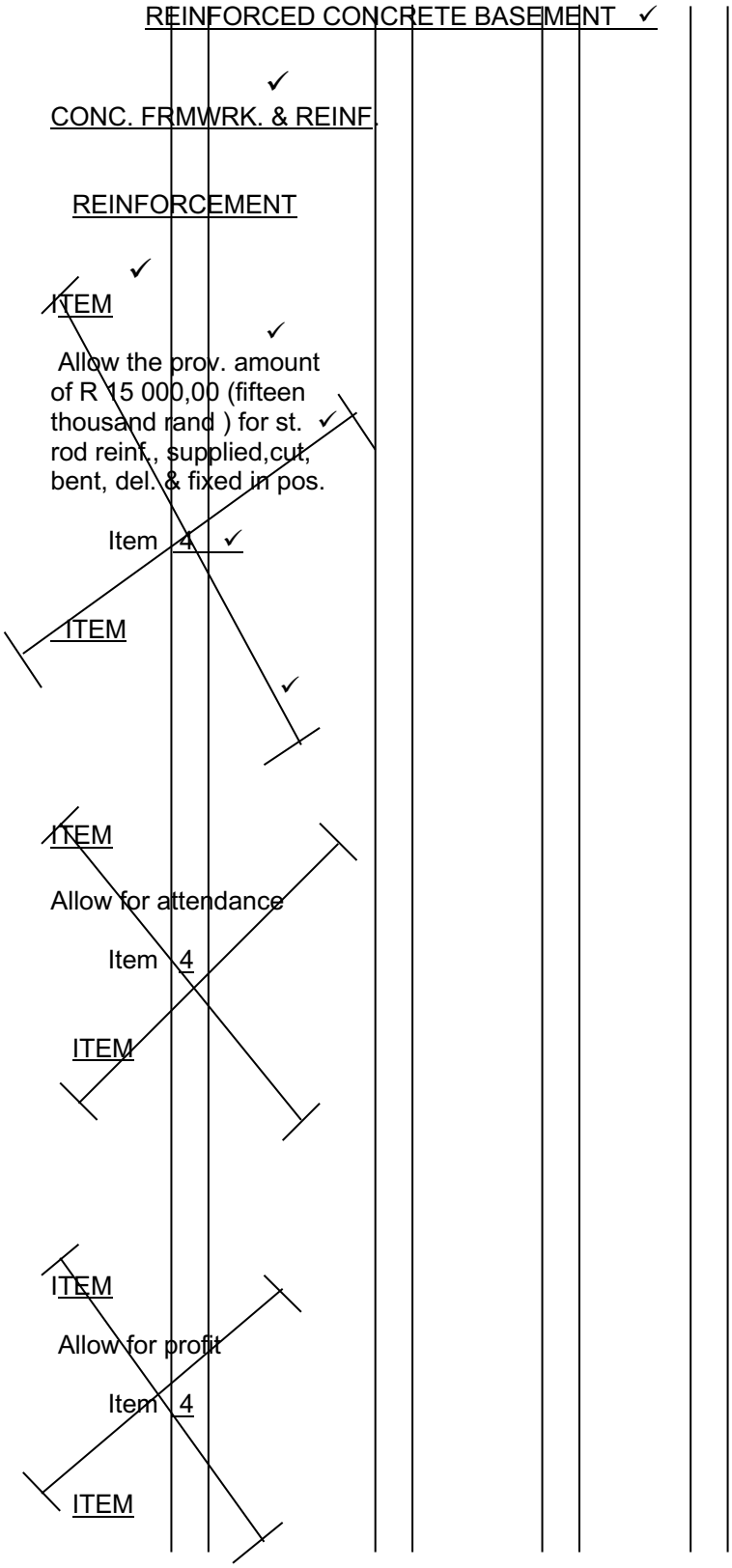
			✓		✓		Allow the prov. amount of ✓
			20 MPa. mass conc. in		Item		R 25 000,00 (Twenty five
	9,44		bsmnt. incl. s o. & c. hor. top				thousand rand)✓ for steel rod
	5,44	✓	surface				reinf. supplied, cut, bent,del.&
	0,15		-flr				fixed in position.
	24,88						
	1,22						
	0,29	✓					
			- trench				& √ (half mark)
							.
	25,36		30 MPa in 440 mm thick ✓				
	0,44	✓	reinf. conc.wl.				Allow for attendance. ✓
	3,05		✓				
			3,000 + 0,300 – 0,250 =3,050 m				
			2 x 8,780 = 17,560				
			2 x 4,780 = 9,560				& √ (half mark)
			27,120				
			-4 x 0,440 1,760				
			25,360 m ✓				
							Allow for profit. ✓
			30 MPa reinf conc in bsmnt ✓				
	8,78		flr. incl. s.o.& c. hor. top surface				
	4,78						
	0,25						
							✓
			9,000 – 2 x 0,110 = 8,780 m ✓		29,32		110 mm bsmnt. bk. Skin wl. in
					3,30		ord. bks. In 1:4 c.m. blt. in s.b.
			5,000 – 2 x 0,110 = 4,780 m ✓				
							29,760 – (4 x 0,110)
							= 29,320 m ✓
✓							
2			Frmwrk. to sides of conc. wls. ✓				3,000 + 0,300 = 3,300 m ✓
	25,36						
	3,05		-wl.				
	27,12						
	0,25						
			Flr.				
			(3)				(4)

(Any 20 × 1) **[20]**

QUESTION 3: SQUARING

	✓ Item		Allow the prov. amount of R 25 000,00 (Twenty Five thousand rand) for steel rod reinf. supplied, cut, bent, del. & fixed in position. ✓ ✓ ✓ & Allow for attendance. ✓ & ✓ Allow for profit.				NOTE: Vertical transfer lines must be different colours indicating different checkers.
			(4)				

QUESTION 3: ABSTRACTING



MARK ALLOCATION

Section	1	
Trade	1	
Unit	1	
Col.	1	
Page reference	1	
Transfers	2	= 7

Note:
Diagonal lines must be different colours indicating different checkers.

QUESTION 3: BILLING

	✓ REINFORCED CONCRETE BASEMENT				
	✓ BILL No. 1				
	✓ CONCRETE FORMWORK & REINFORCEMENT				
	REINFORCEMENT				
✓ 1	✓ Allow the provisional amount of R25 000,00 (Twenty five thousand rand) for steel rod reinforcement, supplied, cut, bent, delivered and fixed in position.	✓ ITEM			25 000 00
2	Allow for attendance.	ITEM			
3	Allow for profit.	ITEM			
	TOTAL CARRIED TO SUMMARY ✓				R

MARK ALLOCATION

Section	1	
Trade	1	
Bill no.	1	
Item no.	1	
Description	1	
Units	1	
Summary	1	= (7)

(20 × 1) **[20]**

TOTAL SECTION A: 60

SECTION B

QUESTION 4

- A retention fund is established when it is preferred instead of a contract guarantee amount that is deposited by the contractor into a fixed account.✓
- A retention fund is a dual account established with a reputable financial institution✓ for the full duration of the contract period up to the finalising of the final account.✓
- When monthly payments✓ are made to the contractor, 10% of the payments✓ will be withheld and deposited in this account. The maximum retention amount must however not exceed 5% of the contract amount.✓
- The retention fund serves as a deterrent against the use of inferior materials and bad workmanship by the contractor and sub-contractors.✓
- The contractor as well as the sub-contractors will be liable✓ to return to the site in the event of defects arising after handing over of the building. The repairs will have to be rectified at the cost of the guilty party.✓
- In the event of the repairs not being done, the client has the right to employ another contractor to do the work. The costs for these repairs are then funded out of the retention fund.✓
- The finances in the retention fund will be released and paid out after the final account has been agreed upon by all the parties.✓ (Any 10 × 1) **[10]**

QUESTION 5

Original Tender Price			R 1 007 937,44 ✓
Less Contingencies			R 45 500,00 ✓
			R 962 437,44 ✓
SAVINGS on Bill of Quantities:			
Prime cost and provisional sums	R 125 259,45		
Less	R 120 450,00 =	4 809,45 ✓	
Excavations	R 101 241,33		
Less	R 96 678,89 =	4 562,44 ✓	
Site Works	R 132 435,96		
Less	R 130 456,96 =	1 979,00 ✓	R 11 350,89 ✓
			R 951 086,55 ✓
EXTRAS on Bill of Quantities:			
Plumbing and Drainage	R 111 507,92		
Less	R 89 692,99 =	21 814,93 ✓	
Variation Orders		= 27 678,00 ✓	
Increased Cost		= 95 785,45 ✓	R 145 278,38 ✓
New Contract Value			R 1 096 364,93 ✓
Less previous payments			R 1 006 345,00 ✓
Full and Final payment due to Contractor			R 90 019,93 ✓

(15 × 1) **[15]**

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QUESTION 6

8.1 True
8.2 True
8.3 True
8.4 True
8.5 True

(5 × 1) **[5]**

QUESTION 7

Door	Paint
	Ironmongery
Frame	Prime backs
	Paint
	Lugs
	Dowels

Adjustments:

Deduct	220 mm wall
	Facings
	Int. plaster
Add	Conc. s.b.
	Plaster in reveals
	Facings in reveals
	Precast concrete lintels
	Brick reinforcement

(Any 10 × 1) **[10]**

TOTAL SECTION B: 40
GRAND TOTAL: 100

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