



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

QUANTITY SURVEYING N5

14 August 2025

This marking guideline consists of 8 pages.

SECTION A

QUESTION 1

QUESTION 2

	31,00 0,25 0,35	✓	1.1 ✓ 30 MPa r.c. to the ring beam	2/	31,00 0,25	✓	2.1 Frmwrk. To the underside of ring bm. N.e. 3.5 m hi. Above g.l.✓
	2/5 000 5 000 <u>+2/250</u> <u>+2/250</u> 10500 5 500		31,00 0,35		2.2 Ditto to the sides of the ring bm.✓		
	2/ 10 500 21 000 2/5 500 <u>11 000</u> 32 000✓		5,00 0,25		2.3 Ditto to the u/s. of the int. bm.✓		
	-4/250 <u>1 000</u> 31 000✓		5,00 0,35		2.4 Ditto to the sides of the int. bm.✓		
	5,00 0,25 0,35	✓	1.2 Ditto to the internal bm.✓	2/	5,00 0,35	✓	2.5 Frmrk. To the sides of the slab.✓
	1.3 25 MPa r.c. to the slab.✓		32,00 0,15		2.6 Frmrk. To the u/s. of the slab.✓		
	10,50 5,50 0,15		5,00 4,88		5000 <u>-125</u> 4875		
[10]				[12]			
(1)				(2)			

QUESTION 3

20/	10,73	✓	3.1 16 mm Ø brs. N.e. 13 m in len. @ 300 mm c/c.✓ Length no. 10 500 5 500 <u>-2/30</u> <u>-2/30</u> 10 440 5 440 ÷ 300 <u>+2/9/16</u> 18,13 10 728 19 + 1 20 brs.✓	2/2/	10,89	✓	✓ 25 mm Ø brs. n.e. 13 m in len. Compression brs. to ring bm. Length 10 440 <u>+2/9/ 25</u> 10 890 5 440 <u>+2/9/25</u> 5 890
23/	10,80	✓	✓ 20 mm Ø brs n.e. 13 m in len. @ 250 mm c/c. Length no. 10 440 5 440 ÷ 250 <u>+2/9/20</u> 21,76 10 800 22 + 1 23 brs.✓	2/	5,80	✓	20 mm Ø int. bm. Tension bars n.e. 13 m in len. ✓ 5 440 <u>+2/9/20</u> 5800
54/	5,73	✓	✓ 16 mm Ø brs. n.e. 13 m in len. @ 200 c/c. Length no. 5 440 10 440 ÷ 200 <u>+2/9/16</u> 52,20 5 728 53 + 1 54 brs.✓	2/	5,73	✓	16 mm Ø int. bm. Compression brs. n.e. 13 m in len.✓ 5 440 <u>+2/9/16</u> 5 728
2/3/	11,02	✓	32 mm Ø brs. n.e. 13 m in len. Tension brs. to ring bm.✓ Length no. 10 440 10 440 ÷ 200 <u>+2/9/32</u> 52,20 11 016 53 + 1 54 brs.✓	20/4/	1,20	✓	20 mm Ø shear brs n.e. 13 m in len. @ 300 mm c/c. ✓ 5 440÷300 18,13 19 + 1 20 brs.✓
2/3/	6,02	✓	5 440 <u>+2/9/32</u> 6 016	20/2/	1,44	✓	10 mm Ø stirrups to ring bm. @ 300 mm c/c. ✓ 500 250 <u>-2/30</u> <u>-2/ 30</u> 440 190
			5 440 <u>+2/9/32</u> 6 016	36/2/	1,44	✓	2/440 5440÷300 <u>+2/190</u> 18,13 1260 19 + 1 <u>+2/9/10</u> 20 brs.✓ 1440 10 440÷300 34,8 35 + 1

QUESTION 3 (continued)

QUESTION 4.1 (squaring)

18/	1,40	✓	✓ 8 mm Ø stirrups to the int. bm. @ 300 mm c/c. 500250 -2/30 -2/30 440190 1260 +2/9/8 1404 5 000 ÷ 300 16,667 17 + 1 18 brs.✓ Note: closed-loop stirrups were selected. However, open-loop stirrups may also be accepted.	✓ 31,00 0,25 0,35 2,71 5,00 0,25 0,35 0,44 10,50 5,50 0,15 8,66	✓ 1.1 30 MPa r.c. to the ring beam 2/5 000 5 000 +2/250 10500 +2/250 5500 2/10 500 21 000 2/5 500 11 000 32 000 -4/250 1 000 31 000 1.2 Ditto to the internal bm. 1.3 25 MPa r.c. to the slab. ✓ ✓	Mark allocation Check side cast 1 Check squaring 1 Squaring 1 Run-through 1 Check transfers 1 Check dimension 1 Double line 1 squaring (Any) (5)
			[Any 18 marks]			
			(5)	(6)		

(5)

(6)

QUESTION 4.2

SECTION OF A REINFORCED CONCRETE STRUCTURE ✓																	
<u>Concrete, formwork and reinforcement</u> ✓ M³ ✓ 30 MPa r.c. to the beams ✓ 2,71 +0,44 3,15 4 m³ ✓ M³ 25 MPa r.c. to the slab. 8,66 9 M³																	
Mark allocation <table> <tr> <td>Section</td> <td>1</td> </tr> <tr> <td>Separating trades</td> <td>1</td> </tr> <tr> <td>Unit measurements</td> <td>1</td> </tr> <tr> <td>Check transfers</td> <td>1</td> </tr> <tr> <td>Checking diff. pens</td> <td>1</td> </tr> <tr> <td>Page number</td> <td>1</td> </tr> <tr> <td>Reducing</td> <td>1</td> </tr> <tr> <td></td> <td>(7)</td> </tr> </table>		Section	1	Separating trades	1	Unit measurements	1	Check transfers	1	Checking diff. pens	1	Page number	1	Reducing	1		(7)
Section	1																
Separating trades	1																
Unit measurements	1																
Check transfers	1																
Checking diff. pens	1																
Page number	1																
Reducing	1																
	(7)																

QUESTION 4.3

	<u>SECTION OF A REINFORCED CONCRETE STRUCTURE</u> ✓				
	<u>BILL No. 1</u> ✓				
✓	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u> ✓	✓	✓		
1	30 MPa reinforced concrete to the beams.✓	M ³	4		
2	25 MPa reinforced concrete to the slabs.	M ³	9		
	Mark allocation				
	Section 1				
	Different trades 1				
	Bill number 1				
	Item number 1				
	Transfers (no abbreviations) 1				
	Unit measurement 1				
	Quantity 1				
	Bill summary 1				
	[8]				
	✓ BILL carried to summary			R	
					(8)
					[20]

TOTAL SECTION A 60

SECTION B

QUESTION 5

- 5.1
- A description of the work to be done✓
 - The length of time and completion date for the work✓
 - The cost of the project✓
 - The payment terms✓
 - Procedure when one party defaults✓
 - The extent to which common law would usually apply or be adhered to
- (Any 5 × 1) (5)
- 5.2
- Mandatory evaluation✓
 - Technical evaluation✓
 - Financial evaluation✓
- (3)
- 5.3
- Nominated supplier: It is the supplier, nominated by the architect to supply only specialised material or units on site.✓
- Nominated sub-contractor: It is a specialist contractor to perform specialist work. The sub-contractor is chosen and appointed by the architect.✓
- (2)
- [10]**

QUESTION 6

- 6.1
- The strength of material and construction work✓
 - The ratio of concrete and mortar ingredients✓
 - Type of material✓
 - The colour of construction materials✓
 - Clause of contracts✓
 - Cost of material
 - Procedure of construction work
 - Construction material, tools and plant used during construction
- (Any 5 × 1) (5)
- 6.2
- Register interest✓
 - Attend briefing sessions✓
 - Develop bid response strategy✓
 - Review recent award rewards✓
 - Develop or compile a bid✓
 - Provide references
 - Submit the bid
- (Any 5 × 1) (5)
- [10]**

QUESTION 7

- 7.1
- Value of the original builder's work completed✓
 - Value of all the variation orders to the original contract✓
 - Value of any additions of omissions to the original contract✓
 - Prepare the value of sub-contractor's work not measured in the original bill of quantities✓
 - Calculate the value of cost escalations (fluctuations) during the contract period✓
 - Finalise the final account with the contractor before handing it over to the architect
 - Deduct contingency amount
 - Prime cost items for nominated supplier
 - Provisional items
 - Preliminaries in proportion if contract price has changed
 - Connecting any errors in the documents (Any 5 × 1) (5)
- 7.2
- Preparing a feasibility study for the client✓
 - Drawing up estimates and a budget for the client✓
 - Keeping the project within budget✓
 - Estimate cash flow✓
 - Preparing replacement estimates for insurance purposes✓
 - Cost planning
 - Preliminary cost advice
 - Evaluation of variations
 - Prepare bill of quantities (Any 5 × 1) (5)
- [10]**

QUESTION 8

- 8.1 R9 000,00✓
- 8.2 R163 210,00✓
- 8.3 R181 350,00✓
- 8.4 R163 210,00✓
- 8.5 10 months✓
- 8.6 First month/month 1✓
- 8.7 R18 140,00✓
- 8.8 R11 030,00✓
- 8.9 R172 350,00✓
- 8.10 R150 000,00✓
- (10 × 1) **[10]**

TOTAL SECTION B: 40
GRAND TOTAL: 100