higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

APRIL EXAMINATION

QUANTITY SURVEYING N4

12 APRIL 2016

This marking guideline consists of 8 pages.

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SECTION A

QUESTION 1

1.1

			OUTBUILDING **Checklist** Clear site Excavation Risk of collapse Risk of water Concrete Brick wall Backfill Cart away Earth filling e.o.o.b		18.28 .60 .20 18.28 .33		15 Mpa concrete in trenches for foundation footings 1½ Brick wall built in stretcher bond
				2/	18.28 .33		Backfilling to sides of trenches including p.r & f
	9.40 6.40	60.16	Clear site of all rubbish, debris etc 6400 3400 +2/1500 2/1500 9400 6400		.14 18.28	1.69	& Ddt e.o for ca a.b
	18.28 .73 .60	8.01	Excavate in earth for surface trenches n.e 2 m in depth & e.o c.a surplus material 2/6.400 = 12800 2/3400 = 6800 19600 Less 4/330 1320 **18.280**		.60 .20 18.28 .33 .33 3.07 6.33 .20	2.19 1.99 4.18 3.89	Extra-over cart-away surplus materials Earth filling to underside of surface bed
2/	18.28 .73 item	13.34	Risk of collapse to sites of trenches n.e 1.5 m deep Keep foundations free from water 1		19.60 .35		e.o brick in facings including wall ties 200 2/ 75 350 end of dimensions 2 48/2 = **(24)**

(24)

EARTHWORKS

m²
Clear site of all rubbish, debris e.t.c

60.16

60

m³
Excavate in earth for Surface trenches n.e2m deep

8.01

8

m²
Extra over for cart away

4.18

4

m²
Risk of collapse to sides of trenches n.e 1,5m deep

13.34

13

Keep excavations free from water

item

m³
Backfilling to sides of trenches

1.69

2

m³
Earth filling to underside of surface bed

3.89

4

1.2

C.N	DESCRIPTIONS	UNIT	QTY	RATE	RAND	CENTS
	Earthworks Bill no 1					
1	Clear site as usual	m²	60			
2	Excavate in earth for surface trenches n.e 2 m deep	m³	8			
3	Extra-over excavation for cart-away surplus material	m³	4			
4	Risk of collapse to sides of trenches n.e 1,5 m deep	m²	13			
5	Keep excavations free from water	Item	Item			
6	Backfilling to sides of trenches	m³	2			
7	Earth filling to underside of surface bed	m³	4			
	Bill no 1 carried over to summary					

Squaring = 4
Abstracting = 6
Billing = 6 (16)
[40]

TOTAL SECTION A: 40

SECTION B

QUESTION 2

2.1 To reduce space occupied by a description without leaving out essentials.
To save time.

2.2 When billing and working up.

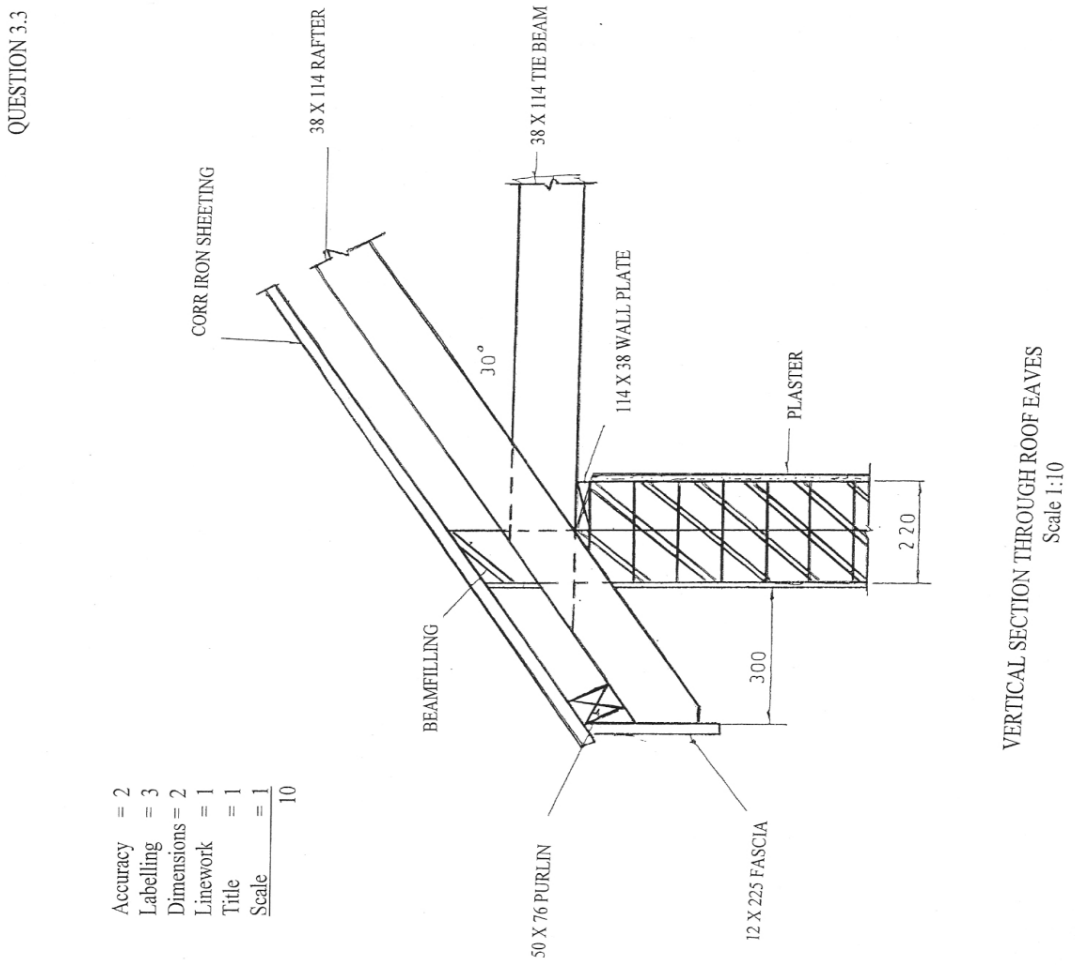
(2 x 2) (4)

2.3

2.3.1	Metre
2.3.2	Number
2.3.3	Metre
2.3.4	Metre
2.3.5	Metre
2.3.6	Number
2.3.7	Square metre
2.3.8	Square metre
2.3.9	Metre
2.3.10	Square metre
2.3.11	Cubic metre
2.3.12	Cubic metre

(12 x ½) (6)

2.4


QUESTION 3.3
38 X 114 RAFTER
38 X 114 TIE BEAM
CORR IRON SHEETING
30°
114 X 38 WALL PLATE
PLASTER
220
300
BEAMFILLING
50 X 76 PURLIN
12 X 225 FASCIA
VERTICAL SECTION THROUGH ROOF EAVES
Scale 1:10
Accuracy = 2
Labelling = 3
Dimensions = 2
Linework = 1
Title = 1
Scale = 1
10

(10)
[20]

QUESTION 3

3.1

3.1.1	True
3.1.2	True
3.1.3	True
3.1.4	True
3.1.5	True
3.1.6	True
3.1.7	True
3.1.8	True
3.1.9	True
3.1.10	False

(10 x 1) (10)

3.2

3.2.1	n.e
3.2.2	1½bkw
3.2.3	Founds
3.2.4	Ddt
3.2.5	c.m
3.2.6	ECP
3.2.7	PVA
3.2.8	PVC
3.2.9	K.P.S
3.2.10	c.s.g

(10 x 1) (10)
[20]

QUESTION 4

4.1 The function of the abstract is to collect similar items together to a certain accepted order for the writing of the bill of quantities, i.e. adding similar tasks in the bill of quantities which will be paid for at the same price under one item. (5)

4.2 The section on preliminary and general items outlines the conditions under which the contract will be administered and describes all matters which may affect the establishment of the contractor's staff or equipment on the site and general execution of the works. (5)

4.3 Provisional sum refers to items for the complete execution of specialist work such as electrical or lift installations.

It includes a sum of money to allow for estimated cost of work and may be based on the quotations received by the architect from specialist firms which could not be inserted in the bill of quantities when the bill was completed. (5)

4.4 4.4.1 Excavations in trenches and holes shall be given in cubic metres and kept in successive depths of 2 m and shall include staging. (2)

4.4.2 An item of *extra-over all excavations* shall be given in cubic metres for carting away and if the excavated material is to be dumped in a prescribed place, the location and approximate distance shall be stated. (3)
[20]

TOTAL SECTION B: 60
GRAND TOTAL: 100

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