higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

ARCHITECTURAL GRAPHICS AND TECHNOLOGY

(Second paper)

NQF LEVEL 4

15 November 2022

This marking guideline consists of 3 pages.

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QUESTION 1: ADMINISTRATION, LEGISLATION & REGULATIONS

1.1 1.1.1 SACAP – South African Council for the Architectural Profession (2)

1.1.2 SAIBD – South African Institute for Building Design
SAID – South African Institute of Draughtspersons
SAIAT – South African Institute of Architectural Technologists
SAIA – South African Institute of Architects
IID – South African Institute of Interior Design Professionals
(5 × 2) (10)

1.2 1.2.1 Geotechnical Engineer
1.2.2 Client
1.2.3 Land surveyor
1.2.4 Building Inspector
(4 × 2) (8)
[20]

QUESTION 2: STAIRCASES & LADDERS

2.1 2.1.1 Tread
2.1.2 Riser
2.1.3 Balustrade
2.1.4 Newel post
2.1.5 Landing
2.1.6 Dog-leg staircase
2.1.7 2 600 mm
(7 × 2) (14)

2.2
- Timber
- Concrete
- Steel

(3 × 2) (6)
[20]

QUESTION 3: BUILDING PLANS

3.1 3.1.1 150 m^2 + 24 m^2 = 174 m^2/500m^2 × 100 = 34,8% coverage (5)

3.1.2 301 m^2 + 36 m^2 = 347 m^2/975 m^2 ×100 = 35,5% coverage (5)

3.1.3 280 m^2 + 100 m^2 + 18 M^2 = 398 m^2/750 m^2 = 53% coverage (5)

3.1.4 400 m^2 + 120 m^2 + 36m^2 = 556 m^2/1010 m^2 = 55% coverage (5)

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3.2 3.2.1 CWC – Carriage way crossing
3.2.2 Building line
3.2.3 Boundary line
3.2.4 North indicator
3.2.5 Boundary peg

(5 × 2) (10)

3.3 3.3.1 Cover level
3.3.2 Rodding eye
3.3.3 Ground level / Natural Ground Level
3.3.4 Inspection chamber / Inspection Eye
3.3.5 Water closet (toilet)

(5 × 2) (10)
[40]

QUESTION 4: QUANTITIES AND COSTING IN A BUILDING PLAN

4.1
- Tendering Costs
- NHBRC Registration Fees
- MBA Membership Fees
- Professional Indemnity
- Storage Costs
- Materials
- Labour
- Fuel
- Vehicle Repayment Costs
- Electricity
- Water
- Insurance
- Telephone
- Delivery Charges
- Equipment Rental
- Subcontractor Costs
- Depreciation Of Machinery
- Tool Replacement
- Rubble Removal
- Demolition
- Rebuilding Defective Work
- Overdraft Fees
- Skills Training Levy
- Security
- Bank Overdraught Fees
- Training Levy
- Security
- Safety Equipment
- Inspection Certificates
- Toilet Rental

(Any 10 × 1) (10)

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4.2	4.2.1	Weep hole	
	4.2.2	100 mm concrete finished floor level	
	4.2.3	DPM – damp proof membrane	
	4.2.4	NGL – natural ground level	
	4.2.5	Hardcore filling	
			(5 × 2) (10)
			[20]

TOTAL: 100