higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

CONSTRUCTION PLANNING
NQF LEVEL 3

04 November 2022

This marking guideline consists of 6 pages.

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QUESTION 1: COMMUNICATION IN THE CONSTRUCTION INDUSTRY

1.1
1.1.1 C ✓
1.1.2 A ✓
1.1.3 B ✓
1.1.4 C ✓
1.1.5 B ✓
1.1.6 A ✓

(6 × 1) (6)

1.2 1.2.1
- Layout of the workplace.
- Observed areas within an office space.
- Jargon.
- Tone of voice.
- Separated from other workers.
- Working alone instead of in a team. (Any TWO)

1.2.2
- Misunderstanding caused by emotions.
- Emotions such as mistrust and fear.
- Feelings. (Any TWO)

(2 × 2) (4)
[10]

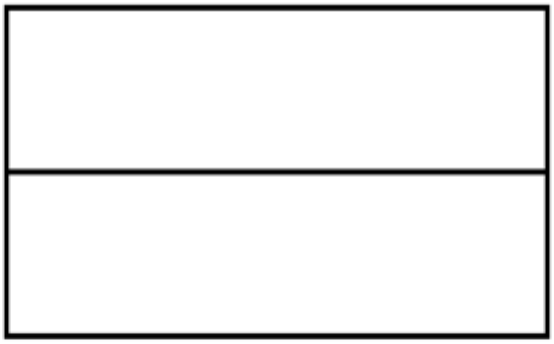
QUESTION 2: TECHNICAL DRAWINGS

2.1
- English bond.
- Stretcher bond.
- Flemish bond.
- Header bond. (Any 3 × 1) (3)

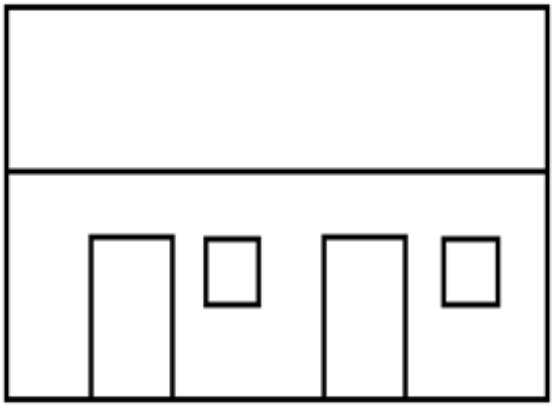
2.2

MARK ALLOCATION					
CRITERIA	**POSSIBLE MARKS**			**MARKS OBTAINED**	**TOTAL ACHIEVED**
Drawn in first-angle orthographic projection	3	0	0		3
Front view correct	2	1	0		2
Left view correct	2	1	0		2
Top view correct	2	1	0		2
Layout and neatness	2	1	0		2
Line work	2	1	0		2
				TOTAL:	13

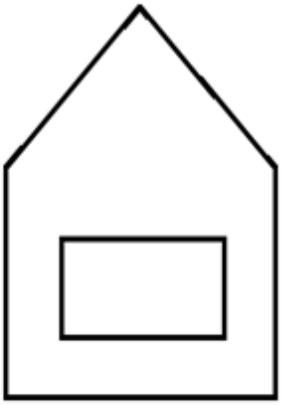
(13)



TOP VIEW



FRONT VIEW

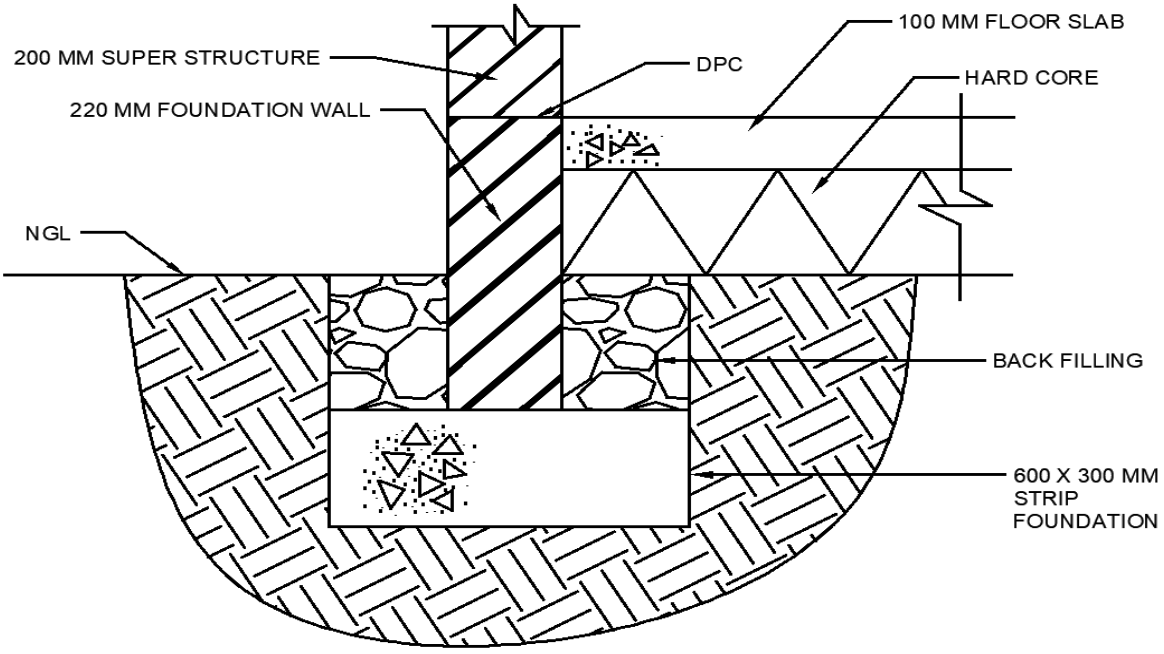


LEFT VIEW

2.3

MARK ALLOCATION					
CRITERIA	**POSSIBLE MARKS**			**MARKS OBTAINED**	**TOTAL ACHIEVED**
Ground level	1	0	0		1
Strip foundation	1	0	0		1
Foundation wall	1	0	0		1
Back filling	1	0	0		1
Earth	1	0	0		1
Hard core	1	0	0		1
Concrete floor	1	0	0		1
Line work	2	1	0		2
Labelling	2	1	0		2
Overall correctness	3	2	1		3
				TOTAL:	14

(14)



A VERTICAL CROSS SECTION OF A FOUNDATION

[30]

QUESTION 3: THE SOUTH AFRICAN CONSTRUCTION INDUSTRY

3.1 Regulatory bodies work in the construction✓ industry to regulate construction activities✓ so that everyone is treated fairly✓ (3)

- The Construction Industry Development Board. (2)
- The National Home Builders Registration Council. (2)
- The Engineering Council of South Africa. (2)
- The South African Council for Architectural Professionals. (2)
- The South African Council for Quantity Surveying Professionals. (2)
- South African Council for the Project Management and Construction Profession. (2)

OR give one mark for abbreviation (Any FIVE)

3.2
- CIDB (1)
- NHBRC (1)
- ECSA (1)
- SACAP (1)
- SACQSP (1)
- SACPCMP (1)

3.3 A stakeholder is someone who has a vested interest✓ in a building project,✓ and who will be directly affected✓ by the project's success or failure.✓ (4)

3.4 3.4.1
- An individual or organisation that starts and funds a project either directly or indirectly,
- that commissions an architect to design a structure,
- that appoints an architect, and
- that authorises an architect to act on his or their behalf. (4)

3.4.2
- An architect designs a structure and makes drawings of it that a contactor will use to build it.
- An architect represents the client or the employer,
- handles all disputes arising from the contract, and oversees consultants.
- An architect coordinates the design team and the construction team,
- does site inspections during construction, and
- acts as chairperson during site meetings. (Any 3 × 1) (3)

3.4.3
- A financial institution that makes funds available to a builder✓ and expects that the funds will be repaid.✓
- Is responsible for financing the building project.✓
- The lender checks the credit worthiness of the borrower.✓

(Any 2 + 1) (3)

3.5 3.5.1 C
3.5.2 D
3.5.3 A
3.5.4 B

(4 × 1) (4)
[30]

QUESTION 4: CONSTRUCTION LEGISLATION AND REGULATION

4.1
- Taking samples of the in situ soil.
- Sending the samples to a soil testing laboratory.
- Determining the soil composition.
- Approving the design of buildings. (Any 3 × 1) (3)

4.2
- In accordance with **National Building Regulations**,✓ which define a competent person as someone who is qualified by virtue of his education, training, and experience.✓✓
- In accordance with the **Housing Consumers Protection Measures Act of 1998**,✓ which defines a competent person as a registered person in terms of the Engineering Professions of South Africa Act, 1990✓✓ or section 11 of the Natural Scientific Professions Act 106 of 1993.✓✓ (6)

4.3 4.3.1 It can be demolished mechanically with construction machinery.
4.3.2 It can be demolished by using dynamite.

(2 × 2) (4)

4.4
- Contractors must apply for permission to erect a permanent building.
- The must submit plans that have to be approved before permission to build will be given.
- Contractors mut get permission for the connection to municipal services such as electricity, water and sewerage.
- They must inform the local authority of environmental or health issues.

(2 × 4) (8)

4.5
- Code of Hammurabi.
- Great Fire of London.
- South African Building Regulations.
- National Building Regulations and Building Standards Act 103 of 1977.

(2 × 4) (8)

4.6
- History of construction.
- Input from engineers.
- Global trends. (3)

[30]

TOTAL: 100

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