ESWATINI GOVERNMENT

NATIONAL TRADE STANDARD

APPROVED BY THE INDUSTRIAL TRAING BOARD

FOR TRADE TESTING THE TRADE/OCCUPATION

OF

BLOCK LAYER/PLASTERER

(a) Practical skill requirements Grade I

In addition to fulfilling the Grade II and Grade III requirements: Every applicant must be able to:

1. Read and interpret building drawings.
2. Set out and construct block or brick arch work.
3. Construct fireplaces and chimneys.
4. Lay granolithic floor screed.
5. Place simple steel reinforcement for reinforced concrete work.
6. Apply Tyrolean finish to walls.
7. Plaster and render walls to a first class finish.
8. Lay and join drainage pipes to fall.

(b) Tools and equipment requirements Grade I

Every applicant should have in his possession and/or be able to use tools and equipment supplied as specified for Grades II and III plus any tools and equipment required to carry out the practical skill requirements Satisfactorily.

(c) Related knowledge requirements Grade I

In addition to fulfilling the Grade II and Grade III requirements: Every applicant must have a sound knowledge of:

1. Working sketches and scale drawings
2. The materials used in construction work and their safe storage.
3. The calculation of quantities of materials for various brick/block constructions, plastering, rendering, tiling, floor screeding, etc
4. Methods of setting out arches of various types in local use.
5. Fire place and chimney construction.
6. The application of steel reinforcement in simple concrete work.
7. The various wall finishes such as plaster, and/ cement rendering, Tyrolean, tiles, etc., and the proportions of mixes for the various finishes.
8. Laying drains and the determination of gradients for drainage pipe using boning rods.

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a) Practical Skill Requirements Grade II

In addition to fulfilling the Grade III requirements.

Every applicant must be able to:

1. Set up profiles and lines for the foundation trenches to a building.
2. Put in level pegs to foundation trenches.
3. Construct acute and obtuse angles in block-work and brickwork.
4. Erect scaffolding for construction and repair work.
5. Repair cracked walls and replace defective materials as required.
6. Construct curved walls by using trammels and/or templates.
7. Build gable ends.
8. Lay quarry tiles to floors and glazed tiles to walls.
9. Lay sand and cement floor screed.
10. Plaster and render walls in two coats.
11. Construct drainage manholes/inspection chambers.
12. Construct storm—water drains.
13. Lay concrete paving and/or paving slabs.
14. Lay drainage pipes using bonning rods.

b) Tools and Equipment Requirements Grade II

Every applicant should have in his possession and/or be able to use tools and equipment supplied as specified for Grade III plus any other tools and implements required to carry out the practical skill requirements satisfactorily.

c) Related Knowledge Requirements Grade II
In addition to fulfilling the Grade III requirements.

Every applicant must have a sound knowledge of:

1.Setting up profiles and lines for foundations particularly in relation to setting out right angles by the 3:4:5 or multiples of 3:4:5 method.

2.The method of levelling pegs for foundation trenches using boning rods and/or straight edge and level.