ESWATINI GOVERNMENT

NATIONAL TRADE STANDARD

APPROVED BY THE INDUSTRIAL TRAINING BOARD

FOR TRADE TESTING IN THE TRADE/OCCUPATION

OF

MARBLE/GRANITE FITTER

JOB DESCRIPTION –MARBLE/GRANITE FITTER

1. Is a skilled artisan having knowledge of various interior and exterior floor installation and wall cladding technique.

2. Plays key role in the floor and wall stone decoration works.

3. Able to read the given drawing/task and measure the quantities of types of stone finishes and the consumables required.

4. Fluent with geometrical tools and able to draw various geometrical shapes to the given sizes.

5. Able to regularly calculate and produce stock updated document of the consumable items and marble and granite slab in stock.

6. Has knowledge and experience in cutting 20mm thick marble, granite, quartzite, sand stone, porcelain slabs to various shapes and sizes with minimum wastage.

7. Able to determine the highest and lowest concrete floor levels in reference to the given datum mark and accordingly arrange the floor keys to achieve uniform floor levels throughout the building.

8. Able to prepare the marble/granite underlay mixture in right proportion (Grey cement: washed river sand: water: tile fix adhesive).

9. Able to grind and mould stone edges as specified using baby grinder machine and various circular sand paper.

10. Able to create bevel edges, straight polished edge, quarter circular moulds, bull nose edge and so on.

11. Plays key role in training and assisting juniors workers thereby developing more fitters under his supervision

12. Able to read the given shop drawings, sketches and measurements and be able to perform as per the given timelines.

13. Has knowledge of handling various stone cutting tools such as, wet circular stone cut saw, baby grinders and Angle grinders, core saw drill bit using drill machine.

a) Practical Skill Requirements – Grade III

Every applicant must be able to.

a) Observe all safety regulations – personal and equipment

b) Use of dust mask and hand gloves while using various equipment such as power tools, hand tools, cement, river sand along with other bonding liquid materials and glass fibre.

c) Use and maintain all hand tools such as various types of chisel, rubber mallet, scrappers, trowels, builder square, claw hammers, power tools such as stone cutting wet skilled saw, angular grinder, baby grinder, straight edge, spirit levels, wheel barrow, spades and so on in good condition.

d) Prepare cement and river sand underlay plaster paste as required quantity for the given task with least wastage.

e) Should be familiar with the dry mix and wet cementitious mixture setting time once prepared.

f) Should be able to clad marble/granite using tile fix adhesive.

g) Cut granite and marble to the required shape and sizes.

h) Should be able to repair the damaged cracked marble floor wall surface using the right crack bonding chemical and surface fillers.

i) Use Geometry tools such as compass, protractor, set squares, roller scale and divider.

b) Tools and equipment requirements – Grade III

Every applicant should have in his/her possession and or be able to use tools and equipment supplied as follows;

Spirit level	Water level pipe	Tape measure	Core saw drill bit

chisel	Claw hammer	C- clamps	Star and flat screw drivers
Finishing scrapper	Rubber mallets	Bonding liquid	
trowels	Spacers 3mm/2mm	Straight edge	60cm and 30cm Cross cut
Colour pencils	Builders fish line and glass fibre	stone grinding disc segmented 115mm	Whetstone for sharpening
Carpenter pencils, eraser	Chalk line	Sanding paper P100 and P120	
Geometry tools	Wet cutting disc 115mm		

Plus any allied tools and equipment required to carry out the practical skills requirements satisfactorily.

c) Related Knowledge Requirements – Grade III

Every applicant must have knowledge of:

1) Safety precaution (Personal and equipment)

2) Good housekeeping care with tools and equipment management.

3) Storing cement powder and tile fix adhesive in optimum weather condition away from moisture.

4) Type of tile adhesive and liquid bonding, cement, Glass fibre, water, Silicon resin-hardener and glue.

5) The method of joining damaged marble and granite floor and moulds.

6) The method of mixing cement and river with water and knowing the setting/slaking time before mixture is ready to use for underlay purpose.

7) Types of cutting such as sawing, shaping or planning, drilling and mitre joints.