ESWATINI GOVERNMENT

NATIONAL TRADE STANDARD

APROVED BY THE INDUSTRIAL TRAINING BOARD

FOR TRADE TESTING IN THE TRADE/OCCUPATION

OF

GYPSUM DYE MAKER

JOB DESCRIPTION - GYPSUM DYE MAKER

1. Is a skilled artist responsible in decorating the interior and exterior of premises using Gypsum Powder.

2. Has experience and knowledge of interior carpentry works.

3. Is capable in reading given drawings and is able to estimate the required quantity of various cornice products and ceiling surface area along with various consumables needed to produce the final product.

4. Is able to do a free hand sketch of floral characters and be able to copy given picture on a trace paper using free hand skills.

5. Is able to read measurements and the use of tape measure along with various geometrical tools.

6. Has experience in carving various shapes and forms of decorative modules from gypsum powder using various carving tools.

7. Able to create various types of shapes and forms such as;

    - Various wooden forms having cornice shapes for production.
    - Smooth Gypsum tablets of various length and width with required thickness.
    - Floral design carved cornice.
    - Cylindrical and conical gypsum pre cast shafts/columns.
    - Corbels and Crowns for pillars
    - Gypsum console
    - Various sizes of pre cast moulds
    - Gypsum pre cast dome structure
    - Elliptical ceilings
    - Rhino board ceiling and bulkhead installation and so on.

a) Practical Skill Requirements – Grade III

Every applicant must be able to:

1) Observe all safety regulations – personal and equipment
2) Use of dust mask and hand gloves while using various equipment and GYPSUM powder.
3) Use and maintain all hand tools such as various types of chisel, snipe pliers, scrappers, builder square, carpentry and claw hammers, power tools and so on in good condition.
4) Prepare Gypsum plaster paste as required quantity for the given task with least wastage.
5) Should be familiar with the gypsum powder setting time once dissolved in water.
6) Cut and paste required shapes to size and form.
7) Be able to create wooden support structure if needed to build huge precast gypsum forms.
8) Able to create wooden platforms for precast production and workshop purpose.
9) Should be able to repair the damaged cracked gypsum moulds.
10) 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	Architectural trace paper	Jig saw power tool
Wood chisel	Claw hammer	Tape measure	Screw drill machine
Finishing scrapper	Carpenter hammer	Soft board pins	Star and minus screw drivers
100mm water brush	Snipe plier	Cold glue and linseed oil	Skilled saw power tool
Colour pencils	Builders fish line and glass fibre	Straight edge	600mm and 300mm length Cross cut
Carpenter pencils, eraser	Chalk line	Rasp tool	Whetstone for sharpening
Geometry tools	Sheer tool	Sanding paper P100 and P120	Panel pins, nails and screws

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 Gypsum powder in optimum weather condition away from moisture.

4) Type of Gypsum plaster powder, cement, Glass fibre, water, linseed oil, rubber, Silicon resin-hardener and cold glue.

5) The method of joining damaged gypsum pre cast moulds.

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

7) The proportion of Gypsum powder and water required to achieve the right paste.

8) The method of repairing Gypsum mould cracks and application of top coat of gypsum slurry to achieve smooth finish.

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