

**MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATION, MUMBAI - 51**

1	Name of Course	Certificate Course in Screen Printing (406104)																																								
2	Max.Nos. of Student	25 Students																																								
3	Duration	6 Month																																								
4	Type	Part Time																																								
5	Nos Of Days / Week	6 Days																																								
6	Nos Of Hours /Days	4 Hrs																																								
7	Space Required	Theory Class Room – 200 sqft Workshop – 1000 sqft																																								
8	Entry Qualification	S.S.C. Appeared																																								
9	Objective Of Syllabus/ introduction	To get knowledge of Screen Printing																																								
10	Employment Opportunity	The trainee will be able to take jobs in related enterprise or with working experience will be in a position to work in his own venture.																																								
11	Teacher’s Qualification	Diploma in Printing or S.S.C. with Certificate Course in Printing or NCTVT Certificate holder with 3 years experience.																																								
12	Training System	<table><tr><th colspan="7">Training System Per Week</th></tr><tr><td>Theory</td><td>Practical</td><td colspan="5">Total</td></tr><tr><td>6 Hours</td><td>18 Hours</td><td colspan="5">24 Hours</td></tr></table>						Training System Per Week							Theory	Practical	Total					6 Hours	18 Hours	24 Hours																		
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## Theory

### Screen printing (Theory)

1. Introduction of screen printing.
2. Application and characteristic of screen printing.
3. Comparison of screen printing process with other printing process.
4. Different types of frames used in screen printing their constructions, advantages, limitations.
5. Study of construction types, advantages and application of different types of screen fabric or mesh materials used screen printing.
6. Study of different types of light sensitive materials used for stencil making and their application.
7. Study of working of machinery and equipments-fabric stitching machine, light source, exposer unit ,coating unit ,water gum etc.
8. Study of different types of machines.
9. Types of squeezes, advantages and applications.
10. Study of types of inks, varnishes and their formulations.

## Practical - I

### Screen Printing Technique

1. Introduction of equipments, machinery, tools, raw materials.
2. Demonstrating of screen making materials, such as frame, fabric, squeegee etc.
3. Preparing a screen frame by manually starching of fabric.
4. Preparing a screen stencil for line original using different screen making methods.
5. Preparing a screen stencil for halftone original using different screen making methods.
6. To print single color (line and tone) on different substrates.
7. To print multi color (line and tone) on different substrates.
8. Study of effect of variation in coating thickness, squeegee angle, squeegee pressure & speed of ink deposits.

## Practical - II

### Different types of job printing

1. To print single color (line and tone) on different substrates.
2. To print multi color (line and tone) on different substrates.
3. To print a job on cloth, backlit board etc.
4. To print a multicolor job on add surfaces(Round)
5. Study of effect of variation in coating thickness, squeegee angle, squeegee pressure & speed of ink deposits.

### List of Tools and Equipment for Screen Printing

Sr. No.	Description of items
1.	Table of suitable size
2.	Frames – different sizes
3.	Screens – Silk or other material – different sizes, squeegee
4.	Variety of ink-water waste, solvent free inks, permanent acrylic and textile inks.
5.	Water resistant masking tape-one inch wide
6.	Screw driver, old newspapers, sheet of cardboards etc.
7.	Scrub brush, Scissors, small lamp or chord with standard socket, 150 Watt incandescent bulb.
8.	Cellotape, paper towel, 9" x 12" piece of glass, rubber gloves etc.
9.	Magnifying Glass

### List of books:-

1	Silk Screen Printing
2	A hand book for printing and packaging technology (Biswanath Chakravarty)
3	Edit for print

