

MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATION, MUMBAI - 51

1	Name of Course	Certificate Course in Printing (Web) (406103)																																									
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 Web fed																																									
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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13	Exam. System	<table><tr><th>Sr. No.</th><th>Paper Code</th><th>Name of Subject</th><th>TH/PR</th><th>Hours</th><th>Max. Marks</th><th>Min. Marks</th></tr><tr><td>1</td><td>40610311</td><td>Introduction of Web Fed Offset Print</td><td>TH-I</td><td>3 hrs</td><td>100</td><td>35</td></tr><tr><td>2</td><td>40610321</td><td>Web Fed Offset Printing Technique</td><td>PR-I</td><td>6 hrs</td><td>200</td><td>100</td></tr><tr><td>3</td><td>40610322</td><td>Web Fed Offset Machine Operation</td><td>PR-II</td><td>3 hrs</td><td>100</td><td>50</td></tr><tr><td></td><td></td><td>Total</td><td></td><td></td><td>400</td><td>185</td></tr></table>							Sr. No.	Paper Code	Name of Subject	TH/PR	Hours	Max. Marks	Min. Marks	1	40610311	Introduction of Web Fed Offset Print	TH-I	3 hrs	100	35	2	40610321	Web Fed Offset Printing Technique	PR-I	6 hrs	200	100	3	40610322	Web Fed Offset Machine Operation	PR-II	3 hrs	100	50			Total			400	185
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Syllabus

Theory

Web fed offset

1. Introduction of offset printing process and comparison with other printing process.
2. Equipment and material used for offset and plate making.
3. Printing machine for offset printing – kinds, mechanical and operational features.
4. Rollers kinds, setting cleaning, preparation, treatment handling and storage.
5. Study of different dampening systems.
6. Study of different types of web offset machine operating systems.
7. Study of web offset feeding system delivery system inking system, dampening system.
8. Web tension control, detector, turn over device, slitting.
9. Study of inking units, types of ink and drying systems registration device.
10. General care and maintenance of machines and other equipment – cleaning, lubrication and overhauling.
11. Running problems – causes & remedies.
12. Safety precaution safety hazards – preventive measures.

Practical - I

Web fed Offset Printing Technique

1. Introduction of offset machine.
2. Handling and care of equipments and material for web offset machine.
3. Cleaning lubrication & general maintenance of machinery equipments.
4. Offset printing machines operations – fixing the plate, paper feeding, delivery systems, inking, dampening systems, web tensioner, detector, turn over device, slitter etc.
5. Different types of job printing on machine.
6. Rollers – kinds, setting, cleaning preparation, treatment handling and storage and wash-up rolls.

Practical - II

Web fed Offset Machine Operation

1. Handling and care of equipments and material for web offset machine.
2. Offset printing machines operations – fixing the plate, paper feeding, delivery systems, inking, dampening systems, web tensioner, detector, turn over device, slitter etc.
3. Different types of job printing on machine.
4. Rollers – kinds, setting, cleaning preparation, treatment handling and storage and wash-up rolls.
5. Premakeready, makeready.
6. Outlying of running problems, causes and remedies.
7. Safety precaution – safety hazards – preventive measures.

List of Tools and Equipment for

Offset Machine Operation – Off-set Web perfector multi colour machine)

Sr. No.	Description of items
1.	Off-set Web perfector multi colour machine and accessories.
2.	Machine Tools (Standard set)
3.	Roller cleaning machines, cleaning liquids.
4.	Roller racks
5.	Ink slab pallet knives
6.	Gloves
7.	Primary inks, cyan, magenta, yellow, white, black
8.	Reduce, drier, extender
9.	Lubricating oils, oil cane.
10.	Fountain solution, sponges, linen cloth
11.	Image remover
12.	Magnifying glass (+8)
13.	PH Tester – Electronics
14.	Work bench and table standard size.
Raw Materials	
1	Various types of Papers, Cards
2	Other printing material
3	Chemicals used on machines and rollers
4	Ph Strips

List of books:-

1	A hand book for printing and packaging technology (Biswanath Chakravarty)
2	Lithographers Manual

