

GOVERNMENT OF THE PUNJAB

**TECHNICAL EDUCATION & VOCATIONAL
TRAINING AUTHORITY**



**CURRICULUM FOR
Building Painter**

(3 – Months Course)

Revised August, 2024

**CURRICULUM SECTION
ACADEMICS DEPARTMENT**

96-H, GULBERG-II, LAHORE

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TRAINING OBJECTIVES

In order to reduce unemployment and poverty in the society, this curriculum is designed to train the literate persons who are facing a lot of problems to do the proper work of building painter in the job market.

This training program will provide opportunities to those who want to equip themselves with such knowledge and skills which will be helpful for their employment within the period of 3 months instead of working as helper for years.

Further this curriculum is developed by considering the requirements of local market and need of the area enable the pass outs to meet the job in market to reduce the storage of semi skilled workers in the area.

The pass outs of this course would be able to use the water colors, oil colors and paints of different type to produce intermediate colors from basic and secondary colors to apply colors, white wash, distemper, paints inside and outside the walls etc. along with ethical values.

CURRICULUM SALIENTS

Name of course	:	Building Painter
Entry Level	:	Middle
Total Training Hours		7- hours/day , 5 Hours on Friday 6 Days per Week
Training Methodology	:	Practical 80%
	:	Theory 20%
Medium of Instruction	:	Urdu/English

SKILL COMPETENCY DETAILS

On successful completion of this course, the trainee should be able to:-

1. Use the painting tools properly
2. Make the water, oil colors, emulsion, mat finish and vinyl emulsion properly
3. Use the water, oil colors, emulsion, mat finish and vinyl emulsion properly
4. Make the white wash and color wash
5. Prepare the walls of painting
6. Paint the weather and mat sheets on wall, doors and windows
7. Prepare use of enamel paint on wood and walls

KNOWLEDGE PROFICIENCY DETAILS

On successful completion of this course, the trainee should be able to:-

- 1- Explain the Use of painting tools properly
- 2- Explain the water, oil colors, emulsion, mat finish and vinyl emulsion properly
- 3- Describe the Use of water, oil colors, emulsion, mat finish and vinyl emulsion properly
- 4- Describe to Make the white wash and color wash
- 5- Define to Prepare the walls of painting
- 6- Define to Paint the weather and mat sheets on wall, doors and windows
- 7- Explain to Prepare use of enamel paint on wood and walls

CURRICULUM DELIVERY STRUCTURE

WEEK	Curriculum Delivery	Make Up Session	Revision	Final Test	Total
	1-10	11	12	13	13
	10	1	1	1	

SCHEME OF STUDIES
Building Painter Course
(3-Months)

Sr. No	Main Topics	Theory Hours	Practical Hours	Total Hours
1.	Introduction to paint	4	-----	4
2.	Water base paint	4	40	44
3.	Oil base paint	4	40	44
4.	Introduction of colors and their divisions	4	-----	4
5.	Introduction of putty	4	30	34
6.	Introduction of tools used in paint work	4	40	44
7.	Surface preparation	8	40	48
8.	Use of distemper	4	30	34
9.	Vinyl emulsion	4	30	34
10.	Introduction of plastic emulsion and applications	4	20	24
11.	Introduction of exterior emulsion and applications	6	20	26
12.	Oil base paint (glassy) enamel paints	10	30	40
13.	Improved safety practices	3	---	3
14.	Work ethics	16	-----	17
15.	Soft Skills	4	---	---
Total		80	320	400

Detail of Course Contents
Building Painter Course
(3-Months)

Sr. No.	Detail of Topics	Theory Hours	Practical Hours
1.	Introduction of paint 1.1 Paint definition 1.2 Branches of paint 1.3 Water base 1.4 Oil base and brushes of oil paints	4	
2.	Water base paint 2.1 Definition of water base paints 2.2 Classification of water base paints (distemper/vinyl emulsion/plastic emulsion) 2.3 Difference between white wash and paint applications	4	40
3.	Oil base paint 3.1 Definition of oil base paints 3.2 Branches of oil paints 3.3 Application and techniques of oil base paints	4	40
4.	Introduction of colors and their divisions 4.1 Basic color definition 4.2 Division of colors (Primary, Secondary, Intermediate colors) 4.3 How to make secondary and intermediate colors	4	
5.	Introduction of putty 5.1 Definition of putty 5.2 Preparation of chalk putty 5.3 Use of plaster of Paris putty 5.4 Definition of warmish putty and its applications	4	30
6.	Introduction of tools used in paint work 6.1 Introduction of tools 6.2 Use of brush 6.3 Use of paint roller 6.4 Use of scraper 6.5 Use of stool and ladder 6.6 Precautions after using tools	4	40
7	Surface Preparation 7.1 Surface preparation 7.2 Use of sand paper on wall and wood/steel Work Surface preparation with electric sander. 7.3 Use of putty/filler on wall and wood 7.4 Use of steel putty		

	7.5 Use of primer and its benefits Note: Use of Eco-Friendly Primers Recycling old Materials	8	40
8	Use of Distemper 8.1 Use of electric paint mixer. Definition of distemper 8.2 Surface preparation for distemper 8.3 Color scheme for walls 8.4 Application of distemper Note: Use Eco-Friendly Material for green Environment Natural light Utilization Reduce need of artificial light for Green Environment	4	30
9	Vinyl Emulsion 9.1 Difference between vinyl emulsion and distemper 9.2 Surface preparation for vinyl emulsion and distemper 9.3 Application method of vinyl emulsion 9.4 How to dilute the paint	4	30
10	Introduction of Plastic Emulsion and Applications 10.1 Introduction of plastic emulsion 10.2 Difference between vinyl and plastic emulsion 10.3 Surface preparation for plastic emulsion 10.4 Application method for applying plastic emulsion 10.5 How to dilute the plastic emulsion	4	20
11	Introduction Of Exterior Emulsion And Applications 11.1 Definition of exterior paint 11.2 Surface preparation 11.3 Difference between interior and exterior paint 11.4 How to dilute exterior paint	6	20
12	Oil Base Paint (Glassy) Enamel Paints 12.1 Branches of oil base paint 12.2 Difference between glossy paint and Enamel Use and practice of spray gun and compressor for painting. 12.3 Use of solvent for enamel 12.4 Surface preparation for enamel paint 12.5 How to apply oil base paint and method On walls and wood 12.6 Surface preparation for wood and Metal Note: Observe Waste Management and	7	30

	Indoor Air Quality Measures.		
13	Improved safety practices 1.1. Used of PPE e.g safety helmet, earmuffs, face shield, safety signs, safety gloves, shoes, goggles and safety belts. 1.2. Safety precautions during surface preparation and painting.	3	-
13	Work Ethics	16	
14	Problem Solving Approach Team Building Communication Skills	04	
Total		80	320

LIST OF PRACTICALS

- Preparation of intermediate & secondary colors with basic colors
- Preparation of water base paints and apply to new & old surface
- Preparation of oil base paints and apply to new & old surface
- Preparation of putty and apply to new & old surface
- Surface preparation for paint work
- Preparation of distemper and apply to new & old surface
- Preparation of white wash and apply to new & old surface
- Preparation of color wash and apply to new & old surface
- Preparation of vinyl emulsion and apply to new & old surface
- Preparation of plastic emulsion and apply to new & old surface
- Preparation of exterior paint and apply to new & old surface
- Preparation of wood surface and filling of putty
- Preparation of steel surface and filling of steel putty
- Preparation of enamel(glossy/mat)paints and apply to new & old surface/metal & wood

LIST OF LABS
Building Painter
(3-Months)

- 1- Store 12x12
- 2- Painting lab
- 3- Scaffolding area 40x40 (open to sky)

LIST OF TOOLS AND EQUIPMENT
FOR CLASS OF 25

Building Painter
(3-Months)

Name of Trade		Building Painter		
Duration of Course		(3-Months)		
Sr. No	Nomenclature of Equipments/Tools	Description	Qty	Unit
1	Brushes different sizes	Paint / Coating Brush, Natural Bristle / Hair ,Metal,Plastic / Urethane,Wood,4",6",8".	25	Nos
2	Scraper Set	Plastic handle,steel blade 4",6"	25	Nos
3	Nehla set		25	set
3	Vin/wooden board 4'x4'	MDF Wood Boards for Painting	25	Nos
4	Flat scraper	Size 10.38 x 3 x 1.38 inches,Black,Steel	25	Nos
5	Steel rule	Size 6",12" Stainless steel ,Guage 1/64 Inches	25	Nos
6	Measuring tape steel 3 feet	High Quality,3 feet,Weight, 3.34 ounces,	25	Nos
7	Measuring tape fiber 50 feet	Color Orange, Weight 0.25 Pounds Blade Length 50 Feet Case Material Fiberglass	2	Nos
8	Steel Elmira 7x4x2	Steel Elmira 7x4x2	1	Nos
9	Folding ladder	Material Aluminum,Size 8 ft Product Dimensions 29.13"W x 57.87"H Color Silver Special Feature Anti-Slip	4	Nos
10	Drum	Material Alloy Steel, Product Dimensions 35"L x 23"W x 23"H	2	Nos
11	Plastic bucket	Color Black, Material Plastic with Steel Handles Item Weight 1.55 Pounds	10	Nos

		Product Dimensions 12.5"L x 12.5"W x 14.25"H Capacity 5 Gallons		
12	Paint roller simple	Color multi Finish Type Gloss	25	Nos
		Size 6",8" Length and 1" dia Special Feature High-density foam provides a uniform lint-free finish		
13	Paint roller different design	Color multi Finish Type Gloss Size 6",8" Length and 1" dia Special Feature High-density foam provides a uniform lint-free finish (Different design)	25	Nos
14	Spray machine with trolley and pipe 50' medium size	Capacity of pesticide tank 50 litre, output: 6-8 ltr/min, contains: 50 meter hose pipe (8.5 mm), 60 cm gun, piston pump and 26 cc engine (2 stroke engine)	1	Nos
15	Spray gun	Standard nozzle:1.8mm Pattern width:180-250mm Paint capacity:1000cc Suitable for base coat	2	Nos
16	Paint application board with stand	Adjustable wood easel. Easy assembly with hardware included. Measures-120CM - high	4	Nos
17	Painter Tape	Masking tape,Color Multicolored Material Crepe Paper.	50	Nos
18	Roller Tray	Material Polypropylene Color Gray Style Deluxe Product Dimensions 16.5"L x 11"W	25	Nos
19	Drop Cloth Big Size	Canvas Sheet 9wx12L	10	Nos
20	Paint Can Opner	Material Plastic Handle Material Plastic Blade Material Carbon Steel	10	Nos
21	Paint Cane opener	Best Quality	12	No
22	Electric Paint mixer	Harden Hex Paint Mixer 621006 600mm Hex Paint Mixer *Carbon steel *Zinc plating *Plastic hanging card	1	No
23	Electric wall sander	Voltage:220-240V~50/60Hz Input power:320W No-load speed:12000rpm Dia of sanding pad:125mm With 5pcs sand paper (TAC731251) With 1set carbon brushes Packed by color box	1	No

LIST OF CONSUMABLE MATERIALS
FOR CLASS OF 25

**Building Painter
(3-Months)**

Sr. No	Nomenclature of Equipments/Tools	Description	Quantity	Unit
1	Oil paint glossy	Nippon/Master/Burger Brand 4 litre	5	Gallon
2	Oil paint matt enamel	Nippon/Master/Burger Brand 4 litre	5	Gallon
3	Distemper	Nippon/Master/Burger Brand 4 litre	5	Gallon
4	Vinyl emulsion	Nippon/Master/Burger Brand 4 litre	5	Gallon
5	Plastic emulsion	Nippon/Master/Burger Brand 4 litre	5	Gallon
6	Exterior emulsion	Nippon/Master/Burger Brand 4 litre	5	Gallon
8	Chalk powder	Fine Quality	10	Kg
9	Wall putty	Nippon/Master/Burger Brand 4 litre	8	Gallon
10	Gypsum powder	Fine Quality	10	Kg
11	Glue	Best Quality	10	Kg
12	Sand paper of different numbers(60-320 No)	Rectangles, with numbers 0-9 engraved on front in a fine-grit sandpaper.	48	Nos
13	Grinding stone	Grinding stones have a 1/4" shank to fit most die grinders	5	Nos
14	Oxide pigments	High Quality,Different Colors	6	packet each
15	Thinner	Finish: Gloss, Matt, Smooth	4	Gallon
16	Turpentine oil	Finish: Gloss, Matt, Smooth	10	litre
17	Kerosene oil	Best Quality	20	litre
18	Malmal cloth	Best Quality	20	Meter
19	Cotton waste	Best Quality (falalan)	40	kg

20	Masking Tape	Best Quality	12	Roll
21	Stir Stick	Best Quality	12	No
22	Face mask	Best Quality	2	Pkt
23	Googles	Best Quality	25	No
24	Dangry	Best Quality	25	No
25	Safety Belt	Best Quality	6	No
26	Helmet	Best Quality	12	No
27	Paint Remover	Best Quality	6	Gallon
28	Paint Edger	Best Quality	12	No
29	Brush Cleaner	Best Quality	6	Gallon
30	Safety Gloves	Best Quality	25	Pair
31	Red Oxid Powder	Best Quality	5	kg
32	Cotton Doori	Best Quality	12	Roll
33	Spray Paints different collor	Mubah	12	bottle

20	Goggles	Splash resistant for spray-painting and orbital sanding	25	Nos
21	Mask	High Quality	10	packs
22	Paint Remover	Best Quality,Non flammable	10	litre
23	Grinder	High Quality	2	Nos
24	Disc (for Grinder) for surface smoothness	Size: 60-120 No	6	Nos
25	Red oxide	Packet	6	Nos
26	Plastic sheet	Plastic	10	kg
27	Paint Compressor	Best Quality	1	Nos

MINIMUM QUALIFICATION OF INSTRUCTOR

- Matric with 05- years relevant experience as field worker

OR

- DAE civil with 3 years relevant teaching/ field experience

OR

Atleast 8 -years relevant Field Experience for worker/ craftsman in same area

REFERENCE BOOKS

- 1- Fanne-Musavirri By Sarfraz(Artist Writer)
- 2- Drawing Book By Mr. Sharif Zia

EMPLOYABILITY OF PASS OUTS

The pass outs of this course may find job / employment opportunities in the following areas / sectors: -

- Work as building painter in building structures with contractors.
- Work as building painter with public sector construction companies.
- Work as building painter with construction companies abroad.
- Work as skilled person independently as building painter

CURRICULUM REVISION COMMITTEE

Sr.No	Name and Designation	Status
1	Mr. Tahir Mehmood, Instructor Civil, GCT sialkot	Convener
2	Mr.Ali Sardar Instructor Plumbing GTTI Mughalpura,Lahore	Member
3	Mr.Abdul Rauf Instructor Civil, GCT sialkot	Member
4	Muhammad Ibraheem Instructor Civil, GCT Rawalpindi	Member
5	Muhammad Ishaq Section Incharge Water Cooling Industry Lahore	Member
6	Waqas Ali Civil Advisor Silver Star Construction, Sialkot	Member