

Rajasthan Skill & Livelihoods Development Corporation

1. Module Name	Painter (Application, Testing, Handling and Storing)
2. Sector	Paint
3. Entry Qualification	Minimum 5 th Pass
4. Minimum Age (in years)	15
5. Duration	64 days/ 384 hrs.
6. Provision of Tool kit	No
7. Terminal Competency	<p>After completion of the course the trainee will be able to:</p> <ul style="list-style-type: none"> • identify materials, tools and equipment required for various types of painting and polishing of different surfaces; • prepare basic surfaces (wall, metal & wood) for painting and polishing; • handle waste disposal & manage housekeeping, health & safety at work place; • prepare wall surfaces for distempering & painting; • prepare, mix and use putty; • mix paint in desired shades for wall painting; • paint walls and ceiling; • recall methods of testing paints and varnishes; • recall various colour codes; • conduct various tests of the paints & varnishes for their purity (Physical and Chemical examination); • paint on machines, automobiles and domestic appliances; • handle & store paints as per norms; • maintain store records; and • prepare cost estimates;

	Approx. hrs.
8. Registration, Inauguration, introduction and objectives of the course	2

9. Course content			
Practical competencies	Approx. hrs.	Underpinning Knowledge (Theory)	Approx. hrs.
<ul style="list-style-type: none"> • Use of protective clothing and equipment and carryout safe working practices. • Apply good housekeeping practices, proper handling of materials and waste disposal. • Identify and familiarize with tools & equipments used in painting. • Identify and familiarize with various types of raw materials used in painting e.g. Paints, Putty, Varnishes etc. 	9	<ul style="list-style-type: none"> • Paint Industry in India. • Importance of painting, painter & related works. • Health and safety precautions, safe working practices. 	3

<ul style="list-style-type: none"> • Use of tools, equipments used for painting. • Upkeep, care & maintenance of tools & equipments. 	9	<ul style="list-style-type: none"> • Tools & Equipment used in painting technique, their specifications & quality. • Various types of Putty, primer, paints, varnishes generally used for painting applications and their quality. 	6
<ul style="list-style-type: none"> • Familiarization with various types and conditions of painting surfaces e.g. wall, wood & metal etc. • Prepare basic surfaces: wall, metal and wood for good painting work. 	12	<ul style="list-style-type: none"> • Importance of using proper tools & equipments. 	3
<ul style="list-style-type: none"> • Apply putty, paint varnishes and polish to the different surfaces by using proper application sequence. 	24	<ul style="list-style-type: none"> • Systematic use of various types of painting tools & equipment, spray guns, ford cup sets. 	6
<ul style="list-style-type: none"> • Field visits to locations where painting is going on. 	12	<ul style="list-style-type: none"> • Necessity and type of help to Painter by Helper. • Waste disposal at work places. • Behavior at work place. Customer & their expectations while painting. 	6
<ul style="list-style-type: none"> • Use of protective clothing and equipment and carry out safe working practices. • Apply good housekeeping practices, proper handling of materials and waste disposal. • Preparing surfaces of wall and ceiling, • Cleaning rough surfaces for distempering, practice of in use of nail brushes, Iron hig, chiseling, rubbing by Emery & Brushes. • Putty preparation, mixing of putty, different process of making putty and use of putty on different surfaces. 	24	<ul style="list-style-type: none"> • Health and safety precautions, safe working practices and waste disposal at work place. • Painter's equipment such as ladder, step scaffolding, trestle, buckets etc., their description & uses. • Housekeeping – good practice, quality aspects of paints. • Behavioral etiquette. • Description, use, care & maintenance of hand tools, brushes of various sizes, diamond glazier, stopping knife, scrapers, pallet knife, chisel knife, shave hook, plumb line, lining tool, rule file etc. 	3
<ul style="list-style-type: none"> • Colour blending by mixing various paints and colour making, distempering walls, relief painting and texturing of walls & ceiling. • Testing of colour perceptions. 	12	<ul style="list-style-type: none"> • Putty: definition, types, uses, method of mixing & different methods of applications. • Description of Tools, equipments used for mixing with safety measures. 	4
<ul style="list-style-type: none"> • Preparation of desired shades by tinting of water based & solvent based paint with universal tinters. • Mixing schemes/ computer generated colours. 	12	<ul style="list-style-type: none"> • Paint: definition, classification & uses. • Method of selection, application, preparation techniques, mixing of ingredients, various types, their purposes and effect on paints. 	4

<ul style="list-style-type: none"> • Painting by brushes of walls and ceiling of a building, office building/ workshop building inside & outside by water based paint/solvent based paint. 	30	<ul style="list-style-type: none"> • Purpose of cleaning of wall surfaces and their effects. Processes of cleaning, different methods of cleaning, water proofing, precautions and uses. • Building painting by brushes, their defects & remedies. 	3
<ul style="list-style-type: none"> • Painting of walls of residential houses with oil colours. • Colouring of doors, windows & fittings. 	24	<ul style="list-style-type: none"> • Surface preparation for oil painting of wall, painting faults & their remedies. • Introduction of wall painting by roller. • Calculation of the amount of paint needed for the jobs and its cost evaluation. 	6
<ul style="list-style-type: none"> • Practical on Testing of different paints & varnishes in respect of specific gravity, viscosity, hardness gloss & finish, adhesion, flexibility & drying time etc. 	18	<ul style="list-style-type: none"> • Health and safety precautions, safe working practices and waste disposal at work place. • Basics of MSDX • Theory related to methods of testing paints and varnishes. • Material Safety Data Sheets 	6
<ul style="list-style-type: none"> • Painting of Machines, tools of different types by brushing, spraying, dipping, removal of paints and surface treatment. 	18	<ul style="list-style-type: none"> • Processes of pretreatment of metals, wood and wall surfaces. • Pre treatment processes on ferrous and non ferrous metals, casting and sheet metal • Processes of painting different types of machines, tools and equipments. 	8
<ul style="list-style-type: none"> • Practice of painting safety colour code on different symbolic articles. 	18	<ul style="list-style-type: none"> • Various colour codes and identification of pipe lines as per international & industrial standards. • Standard colour code practices. 	6
<ul style="list-style-type: none"> • Practice on different types of spray booths. • Spray painting on Machines, Automobiles & Domestic appliances. 	16	<ul style="list-style-type: none"> • Use of high performance coatings. • Painting problems and their resolutions • System of storage of paints & lacquers, solvents, thinners, painters tools. 	8
<ul style="list-style-type: none"> • Practice in storage of paints, handling, conveying, lifting and weighing. 	16	<ul style="list-style-type: none"> • Maintenance of store records, quality assessments of materials and man power requirements for painting jobs. • Preparing cost estimates. 	6
		Entrepreneurship & Soft Skills and Computer Literacy Module:	0
		<ul style="list-style-type: none"> • Entrepreneurship – its necessity and charms of being an entrepreneur. 	1

		<ul style="list-style-type: none"> Who is an entrepreneur and characteristics of a successful Entrepreneur? 	2
		<ul style="list-style-type: none"> How to identify Business opportunities? 	2
		<ul style="list-style-type: none"> Steps for setting up a small scale venture. 	1
		<ul style="list-style-type: none"> Institutional support for entrepreneurship (whom to contact for what) 	2
		<ul style="list-style-type: none"> Government (Central/ State) Schemes and assistance from Banks/ other financial institutions - Procedures and formalities for getting loan. 	2
		<ul style="list-style-type: none"> How to prepare Business plan? 	2
		<ul style="list-style-type: none"> Financial literacy-Costing, Pricing, Profitability and Break Even Analysis. 	2
		<ul style="list-style-type: none"> Cash management in small enterprises. 	2
		<ul style="list-style-type: none"> Accounting and Book Keeping 	2
		<ul style="list-style-type: none"> Introduction to Taxation 	1
		<ul style="list-style-type: none"> Shop and Establishment Act and its provisions. 	1
		<ul style="list-style-type: none"> Creativity, Problem solving & decision making. 	1
		<ul style="list-style-type: none"> Common mistakes generally made by entrepreneurs. 	1
		<ul style="list-style-type: none"> Interaction with successful entrepreneur and success stories. 	2
		<ul style="list-style-type: none"> Communication and Negotiation skills. 	1
		<ul style="list-style-type: none"> Interpersonal skills 	1
		<ul style="list-style-type: none"> How to Deal with customer attitude – Effective selling. 	1
		<ul style="list-style-type: none"> Marketing – Basic concepts/ Skills and effective mode of advertising. 	1
		<ul style="list-style-type: none"> Introduction to e-commerce. 	2
Computer Fundamentals Customize the Desktop Environment e.g. Desktop, Start Menu, and Taskbar etc. Configuring & Migrating Files, Folders & Settings - Folder Views, Accessibility Settings	2	Computer Fundamentals, MS-Office & Internet introduction to Computers History of Computers Components of Hardware Peripherals	1
MS Word Creating, Organizing & Formatting Content Collaborating – Merge, Insert, View, Edit, Track Mode etc. Formatting & Managing Documents	4	Concept of Operating System – Windows XP, Exploring & Configuring the Windows XP Desktop Environment-Customize the Desktop, Start Menu, and Taskbar etc. Configuring & Migrating Files, Folders	1

MS Excel Creating, Analyzing & Formatting Data & Content Collaborating - Insert, View, Edit etc. Managing Workbooks	3	Settings - Folder Views, Accessibility Settings Features of Windows XP Understanding concepts of Word processing using MS-Word	1
MS PowerPoint Creating & Formatting Content Collaborating - Track, Edit, Add, Delete Comments, Merge Managing & Delivering Presentations	3	Understanding concepts of Electronic spreadsheet and various types of entries in it	
Internet Concepts Opening websites and downloading data Writing, reading and sending emails	4	Understanding concepts of URL Creating and Opening an E-mail account. Receiving and sending emails Searching information on Internet.	1
Approx. Total Practical hours	270	Approx. Total Theory hours	112
Grand Total (2+270+112)			384

10. Tools, Equipments and Material for a batch of 30 trainees

S.No.	Item	Quantity	S.No.	Item	Quantity
	Equipment			Materials	
1	Ford cup No.4	One set	1	Wall putty	6 kg.
2	Chequer sheet (for testing capacity)	60 sheets	2	Wall Primer	6 kg.
3	Standard colour shade card IS:5	3 nos.	3	P.U. Coatings	3 kg.
4	Colour blind test Booklet	6 nos.	4	Melamine coatings	3 kg.
5	Mask, gloves, goggles, personal safety equipment item	30 sets	5	Exterior Enamel white-2	3 ltr.
6	Brushes (size – 2 inch)	30 pcs.	6	Interior Enamel white-2	3 ltr.
7	Thermometer – (0 to 110° C)	3 nos.	7	Cement primer water based	3 kg.
8	Beakers/Mug – 500 ml.	30 nos.	8	Cement primer solvent based	3 kg.
9	Measurer cylinder (100 ml.)	6 Pcs.	9	Thinner/Turpentine	3 ltr. each
10	Spatula	30 Pcs.	10	Wood primer	6 kg.
11	Nail Brush	8 nos.	11	Acrylic Emulsion paint – white	6 kg.
12	Iron Hig	8 nos.	12	Oil bound/Acrylic distemper – white	6 kg.
13	Emery paper (320 & 400)	15 each	13	Water based stainers (colour concentrate) (Red, yellow blue Green)	300 ml. each
14	Empty 1 liter. Containers	60 pcs.	14	Solvent based stainer (colour concentrate) (Red, yellow, blue, Green)	300 ml. each
15	Cloth (Rag)	As required	15	M.T.O. /Turpentine	15 ltrs.
16	Brush - distemper – 25 mm	15 pcs.	16	Thinners for Melamine and PU Coatings	1 ltr. each
17	Brush – Dusting	8 pcs.	17	Painted Panels of almost all types of paints	1 each

18	Brush – white wash	15 pcs.	18	Panels of painting defects	1 each
19	Stopping knife	15 pcs.			
20	Plalte knife	15 pcs.			
21	Chisel knife	15 pcs.			
22	Shave hook	30 pcs.			
23	Knife put glazier	15 pcs.			
24	Ladder	1 no.			
25	Scaffolder	1 no.			
26	Trestle painter with stools	30 nos.			
27	Buckets (20 ltr.)	8 nos.			
28	Gun spray with gravity feed cup with accessories with portable Air Compressor	3 nos.			
29	Airless Spray Gun with accessories	3 nos.			
30	Pressure feed container 20 ltr. capacity	3 nos.			
31	Spray Booth	3 nos.			
32	Spray gun	3 nos.			
33	HVLP gun	3 nos.			
34	Compressor - 20Psi working pressure	1 no.			
35	Wooden Panels(6 inches x 6 inches)	60 Pcs.			
36	Concrete Panels(6 inches x 6 inches)	60 Pcs.			
37	Steel Panels(6 inches x 6 inches)	60 Pcs.			
38	Paper Panels(6inches x 6 inches)	60 Pcs.			
39	LCD Projector & computer (Multi Media Equipment with Screen)	1 set			

S.No.	Item	Quantity	S.No.	Item	Quantity
	Hardware			Software:	
1	Computers/Laptops	10 (one for three trainee)	6	Microsoft Windows 7/8/10 or UNIX/ LINUX or latest software	For all Systems
2	Power backup	For all Systems	7	Microsoft Office 2007/ 2010/ 2013 or latest software	For all Systems
3	Inkjet/Laser Printer (Network/USB Printer)	1	8	Antivirus Software (TVD/ Nortan/ Quick Heal Total Security/ Kaspersky/ Any Popular brand)	For all Systems
4	Speaker	1	9	Internet Connection	For all Systems
5	Spare H/W components	As per requirement			