

SYLLABUS FOR PAINTER (GENERAL) TRADE

FIRST YEAR

	Reference		Professional Skills	Professional Knowledge	
Duration	Learning Outcome		(Trade Practical)	(Trade Theory)	
	_		With Indicative Hours		
Professional	Make different	1.	Introduction of trade skills	Introduction of the Institution;	
Skill 150Hrs;	types of sketching		and work application.	rules and management (work)	
	viz., free Hand		(02hrs.)	Process of an Institution.	
Professional	sketching of	2.	Safety attitude development	Knowledge about the facilities;	
Knowledge	different objects,		of the trainee by educating	leaves and rules and subjects an	
42Hrs	designing of		them to use personal	syllabus. Introduction of	
	different shapes,		protective equipment (PPE)	vocational trade, The importance	
	size, geometrical		and Material safety data	of trade in the industrial	
	shapes of		sheet (MSDS). (05hrs.)	Development of the nation Care in	
	different objects	3.	First-aid method and basic	Vocational trade.	
	following safety		training. (02hrs.)	(14hrs)	
	precaution.	4.	Safe disposal of waste		
			materials like- cotton waste,		
			waste paint and waste paint		
			material etc.(02hrs.)		
		5.	Hazard and non hazard		
			identification and		
			avoidance. (02hrs.)		
		6.	Use of firefighting		
			equipment, like-		
			extinguishers, sand bucket,		
			water etc. (10 hrs.)		
		7.	Identification of safety signs,		
			like- Danger, warning,		
			caution and personnel		
			safety .(01hr)		
		8.	Importance of trade		
			training. (02hrs.)		
		9.	Understand precautions to		



			be followed while working	
			in the painting jobs. (02hrs.)	
		10.	Motivational talk by experts.	
			(05 hrs.)	
		11.	5S training. (02hrs.)	
		12.	Draw different sketches and	
			hand writing practice. (15	
			hrs.)	
		13.	Introduction and	Accident and First-Aid:
			identification of tools and	Cost of Accidents; Causes and
			equipments different for	effects of an accident; First-Aid in
			cleaning and painting. (15	case of internal injuries; fracture;
			hrs.)	wound and electric shock.
		14.	Identification and there	(07hrs)
			assembly and function of	
			trade machineries. (10 hrs.)	
		15.	Free hands sketching	Lines- Different types of lines; its
			practice of different lines	uses and specialty.
			and strokes. (17hrs.)	Pencil- Origin of pencil and
		16.	Free hands sketching	its introduction. Different types of
			practice of nature forms	pencils; uses and its specialty.
			like- flowers, leaves, trees.	(14hrs)
			(17hrs.)	
		17.	Free hands sketching	
			practice of birds and	
			animals. (16hrs.)	
		18.	Draw geometrical shapes	Colours for drawing and painting:
			and construct for design.	charcoals, oil and dry pestles,
			(15 hrs.)	water; poster; acrylic; oil colours
		19.	Draw free hand geometrical	and reducer medium. (07hrs)
			forms in perspective. (5hrs.)	
		20.	Draw free hand different	
			types of perspective. (5 hrs.)	
Professional	Ability to	21.	Free hands sketching	Definition and Need of
Skill 50Hrs;	synthesizeof free		practice of human figures.	Sketching-Introduction to
	Hand sketching of		(10hrs.)	sketching; its benefits and
Professional	Human figures,	22.	Black & white/ colour pencil	importance in our culture and
Knowledge	Shading, Use		shading of human figures	traditions as well to the trainees.



14Hrs	graph & figure enlargement.		(Male, female & children). (15hrs.) Graph and figure enlargementwith pencil shading. (10hrs.) Draw with shading different tools and equipments of trade. (15hrs.)	Human organs and their proper place; Body structures of Male and Female. (14hrs)
Professional Skill 100 Hrs; Professional Knowledge 28 Hrs	Identify of paper, colour schemes and compose different types of colour shade Expertise in 2D design.	27. 28. 29.	· · · · · · · · · · · · · · · · · · ·	Colours & colour knowledge: Definition of colour; colour blindness; tone, colour shade- primary, secondary, tertiary. (14 hrs) Colour wheel, colours &
		32. 33. 34.	Make gray scale in pencil shading (5hrs.) Make gray scale in poster colour (5hrs.) Make different colour scale in poster colour (15 hrs.) Make 2D Design in different Composition paint in High key, middle key & low key by poster colour. (20 hrs.) Colour mixing & matching Touch up on Damage posters & photographs. (5 hrs.)	Different types of colour schemes & colour harmony. (07 hrs) Brush: Different types of Brushes with shapes & sizes. Use & Care of Brushes. (07 hrs)



Professional	Create different	36.	Draw & colour realistic	Drawing instruments- Drawing
Skill 150 Hrs;	types of realistic		drawing of Birds. (25 hrs.)	board; T- square; steel and
	objects viz., bird,	37.	Draw & colour realistic	wooden scale; set square;
Professional	animals, realistic		drawing of Animals. (25 hrs.)	compass; Colour dish. (14 hrs)
Knowledge	human figure with	38.	Draw & colour realistic	Brush- Different types of brushes
42 Hrs	application of		drawing of Human figure.	with shapes and sizes. Uses and
	colour shades.		(20hrs.)	care of brush. (07hrs)
		39.	Mounting & Decorate	
			Painted Pictures. (05hrs.)	
		40.	Draw Landscape. (05hrs.)	Drawing paper-
		41.	Colouring Landscape in	Types of drawing papers;
			water/poster colour. (15	its uses and care. (14hrs)
			hrs.)	
		42.	Use graph on portrait	
			picture & Enlarge outline	
			drawing on drawing paper.	
			(05 hrs.)	
		43.	Water or poster colouring	
			on enlarged drawing (15	
			hrs.)	
		44.	Draw & Colour Safety or	
			Related Trade Poster. (10	
			hrs.)	
		45.	Enlarge & Sketching Cinema	Knife-Uses; different types of
			Posters. (05 hrs.)	Putty knife; Scraper knife;
		46.	Colouring enlarged Cinema	hacking knife; Diamond-glazier;
			Poster. (20 hrs.)	Gilder knife; Shave hook knife;
				Stencil knife; Chisel knife. (07hrs)
Professional	Demonstrate with	47.	Sketching & coloring gothic	Lettering-
Skill 50 Hrs;	colour shades		letters in English. (10 hrs.)	Description; uses of devnagri,
	different types	48.	Sketching & coloring gothic	Roman, Gothic; Italic and Text
Professional	letters		letters in Mother Language.	writing. Spacing - Mechanic and
Knowledge	(Devanagari,		(10 hrs.)	Optical spacing. (14hrs)
14 Hrs	roman, gothic,	49.	Sketching & coloring Roman	
	Text writing/		letters. (09hrs.)	
	lettering.) and	50.	Do free hand boru Strokes	
	apply them in		Devnagri. (08hrs.)	
		51.	Sketching & colouring	



	appropriate place.		Devnagri letters. (08hrs.)	
		52.	Sketching & colouring Text	
			or Italic letters. (05 hrs.)	
Professional	Plan and organize	CARI	PENTER WORK:	Carpenter - safety precaution
Skill 100 Hrs;	the work to make		Marking Practice on wood.	description, Use hand tools,
,	job as per		(07hrs.)	carpenter tools, types of wood
Professional	specification	54.	Holding & Sawing Practice	their description & use common
Knowledge	applying different		different size of wood. (10	defects in timber & their effects.
28 Hrs	types of basic		hrs.)	Plumber:
	operation. [Basic	55.	Teeth setting & sharpening	Instruction to the trade safety
	fitting operation –		of different saw. (07hrs.)	precautions and elementary first
	marking,	56.	Tennening Half cut on	aid. Plumber hand tools
	Chiselling, Filing,		wooden border. (05 hrs.)	description on rain water & pipe
	Drilling, Pipe	57.	·	system including installation of
	fitting]		sharpening on plane blade.	water supply fitting. Description of
	, 3,		(05 hrs.)	different types of pipes & their use
		58.	Plane on different wooden	such as galvanized pipes, PVC
			surfaces. (06hrs.)	pipes.
		59.	Chiselling slots on thick	Pipe line leakage & Maintenance.
			wood. (05 hrs.)	(21 hrs)
		60.	Drilling on wood with	
			different drilling tools	
			(Gimlet, Hand Drill, Portable	
			electrical drilling machine.	
			(05 hrs.)	
		61.	Identify & check different	
			types of pipe. (05 hrs.)	
		62.	Do pipe cutting & threading	
			(10 hrs.)	
		63.	Apply different types of	
			pipe joint/ fitting of	
			different materials &	
			different diameter. (Use	
			PVC pipe) (10 hrs.)	
		64.	Make a simple lap joint. (05	Equipments for joint, Joints -
			hrs.)	Types and uses of different types
		65.	Make a simple mitred half	of joints. (07 hrs)
			lap joint. (05 hrs.)	



		66. 67.	Make a simple Dovetail joint. (05 hrs.) Joint fitting with nails, screw, glue etc. (10 hrs.)	
Professional	Manufacture	SHE	ET METAL WORK:	Safety precautions to be observed
Skill 100 Hrs;	simple sheet metal items as per	68.	Marking of straight lines, circles, profiles and various	in a sheet metal workshop, sheet and sizes, Shearing machine-
Professional	drawing and join		Geometrical shapes and	description, parts and uses. (07
Knowledge	them by riveting.		cutting the sheets with	hrs)
28 Hrs	(like- Screen		snips. (15 hrs.)	
20 15	frame, sign board,	69.	Marking out of simple	
	&hanging		development (05 hrs.)	
	Paintings frame)	70.	. ,	
	,		joints (05 hrs.)	
		Mak	ke various joints:	Marking and measuring tools,
		71.	Hemming, form locked,	wing compass, Prick punch, square
			grooved and knocked up	tools, snips, types and uses.
			single hem straight and	hammers and mallets type-sheet
			curved edges form double	metal tools, Soldering iron,
			hemming. (15 hrs.)	Trammel, Stakes. (07 hrs)
		72.	Make cylindrical objects	
			with joints. (10 hrs.)	
		73.	Make simple Square table	Marking and measuring tools,
			tray with folding edge and	wing compass, Prick punch, square
			fix handle with riveting. (17	tools, snips, types and uses.
			hrs.)	hammers and mallets type-sheet
		74.	Make simple triangular tray	metal tools, Soldering iron,
			with folding edge and fix	Trammel, Stakes. (14 hrs)
			handle with riveting. (08	
			hrs.)	
		75.	Make joint/ fitting for rain	
			water (Use PVC pipe). (10 hrs.)	
		76.	Make joint/ fitting for water	
			pipe line (Use GI pipe). (10	
			hrs.)	
		77.	Make joint/ fitting for water	



			pipe line (Use PVC pipe). (05 hrs.)	
Professional Skill 125 Hrs;	Execute different types of Operating System and	78.	Operate & familiarise with computer operating system. (05 hrs.)	Standard pipe threads, nominal diameter, wall thickness, schedule number, die & diestock, tubing.
Professional Knowledge 35 Hrs	explore the working on DTP, Corel Draw, Photo shop etc.	79.	•	(21 hrs)
		80.	Draw scenery like realistic in paint software (05 hrs.)	
		Pho	toshop:	
		81.	Tool handling in photo shop. (05 hrs.)	
		82.	Familiarise with all hand. (05 hrs.)	
		83.	Make a different layer & create background, artistic text, design, images. (05 hrs.)	
		84.	Import photo image from file & scanner, edit photo image. (05hrs.)	
		85.	• ,	
		86.	•	
		87.	Edit & Save image in PSD, JPEG & other format. (05 hrs.)	
		88.	Create a colour advertise design for festival offer. (15 hrs.)	
		89.	Export Design, image,	



			photograph from	
			Photoshop to other	
			different format for	
			different software's. &	
			make a print & print file for	
			different printers. (10 hrs.)	
		Core	el Draw :	Drawing simple geometric objects
		90.	Apply select /move /copy	using Corel Draw Transforming
			/objects, retire skew, size	objects, Organizing objects,
			Objects. (05 hrs.)	Working with text, Dimensioning
		91.	Apply Combine, Shape,	objects Creating special effects.
			weld, trim, Align, Group /	(14 hrs)
			Ungroup objects. (05 hrs.)	
		92.	Add text & Format text,	
			create different heading &	
			Sub-heading. (05 hrs.)	
		93.	- , ,	
			creating special effects for	
			backgrounds & related	
			objects. (10 hrs.)	
		94.		
		J	(05 hrs.)	
		95.	` ,	
		33.	special effects. (10 hrs.)	
		96.	Make a flex design for	
		30.	marketing offers. Convert &	
			Save to CD/DVD/PD for final	
			printing. (10 hrs.)	
Professional	Produce stencils	97.		Stencil -Definition and types of
Skill 25Hrs;	involving different	37.	for stencils, cut it & make a	stencils. Uses; Care and cleaning of
231113,	shapes in		print. (10 hrs.)	different types of stencils.
Professional	ornamental	98.	Draw simple sentence in	Instruments and equipments for
Knowledge	design, text,	J.J.	different lettering, stencil	stencil. (07 hrs)
07 Hrs	symbols etc.		cutting & stencilling. (15	, 555
	operations for		hrs.)	
	different medium		- /	
	like papers, cards,			
	tin, foam board,			
	citi, toatti boatu,			



	observing procedure and check for		
	accuracy.		
Professional	Produce Sign	99. Make sign board with	Advertisement-Sign Board,
Skill 150 Hrs;	board, Name	background painting. (10	Banner, Posters, Hoardings, Wall
	plate. prepare	hrs.)	painting, Name plate, Logo,
Professional	back ground	100. Make Figure Enlargement	Symbol, Monogram, Digital Flex
Knowledge	painting, screen	for sign board. (10 hrs.)	Board.
42 Hrs	printing, Observe	101. Draw and painting letters &	
	finishing, lettering	design or logo on Sign	Graph Making & Enlargement,
	proportion &	Board. (10hrs.)	Need of graph for Enlargement.
	evenness	102. Paint a name plate on	(14 hrs)
		different material (wood/	
		tin/ acrylic). (10 hrs.)	
		103. Make a wooden frame with	Screen Printing - Types, definition
		bolting cloth. (10hrs.)	and explanation. Origin and
		104. Create Art work on tracing	development of screen painting.
		for screen exposing. (10	
		hrs.)	Selection of cloth, instruments,
		105. Coating solution & expose	chemicals, cloth fitting,
		screen with ready art work,	exposing.(14 hrs)
		Develop exposed screen	
		with cold water, touch up	
		pin holes and nonprinting	
		area, taping around inside.	
		(20hrs.)	
		106. Use cromoline film &	
		expose screen with ready	
		art work, Develop exposed	
		screen with cold water,	
		touch up pin holes and	
		nonprinting area, taping	
		around inside. (20hrs.)	
		107. Prepare & registration	Screen developing; printing and
		Pining work on printing	de-exposing /washing.
		table. (05 hrs.)	Types of ink. (14 hrs)
		108. Testing of registration with	



squeezing ink. (02 hrs.)	
109. Do single colour printing on	
selected cards/sheets. (15	
hrs.)	
110. Do multi colour printing on	
selected cards/sheets. (25	
hrs.)	
111. Decorating used screen	
with bleach powder or	
decorating solution, wash &	
clean. (03 hrs.)	

Project Work/ Industrial Visit

Broad areas:

- a) Digital Flex Chart (Safety / Enrolment / Educational)
- b) Decorative or Advertise painting on wall.
- c) Make Greeting cards or visiting cards with screen printing.



SYLLABUS FOR PAINTER (GENERAL) TRADE

SECOND YEAR

Duration	Reference Learning Outcome	Professional Skills (Trade Practical) With Indicative Hours	Professional Knowledge (Trade Theory)
Professional	Develop a craft	112. Make a manually ornamental	Different medium paper for
Skill 50 Hrs;	work and artistic	design on radium or vinyl. (05	plotter cutting. Manual cutting
	work on radium/	hrs.)	Instruments & their safety/
Professional	vinyl/ thermocol	113. Make a symbol or image	care/ precautions, proper
Knowledge	etc.	design by computer in	pasting procedure, pasting
18 Hrs		graphics & cut it with plotter.	techniques, care & precaution.
		(10 hrs.)	(18 hrs)
		114. Do "Instruction board" on	
		acrylic sheet with help of	
		multi layer radium or vinyl.	
		(13 hrs.)	
		115. Make a lettering/ image/	
		symbol design for "Instruction	
		board" by computer in	
		graphics, with help of radium	
		or vinyl & cutting it with	
		plotter, pasting on glass/	
		acrylic/ sun mica or different	
		sheets. (12 hrs.)	
		116. Create a design for wall	
		decoration by computer in	
		graphics & cut it on multi	
		colour vinyl, paste on wall.	
Professional	Identity different	(10 hrs.)	Dolich nanor Types and uses
Skill 100 Hrs;	Identity different types of Plywood,	117. Clean, sanding, knotting, stooping, staining preparation	Polish paper-Types and uses. Putty - Definition, their
JAIII 100 HIS,	MDF & low-quality	wooden surface properly for	material types and uses.
Professional	wood and make	polish. (05 hrs.)	Method of mixing & its
Knowledge	wood and make	118. Make & apply putty for	different system of application.
36 Hrs	used various	varnishing & polishing. (05	Varnish - Definition; types and
501113	uscu various	varinsining & polisining. (03	varinsii Denindon, types and



	techniques,	hrs.)	characteristics of varnish.
	decorate, paint &	119. Apply polish on prepared	Process of makingof varnish its
	make an attractive	wooden surface with cotton	importance and contains.
	wooden article.	rags. (05 hrs.)	Polish- Types and uses.
		120. Clean, sanding, knotting,	Different application methods.
		stooping, staining preparation	(18 hrs)
		wooden surface properly for	
		varnish. (05 hrs.)	
		121. Apply varnish on prepared	
		wooden surface with brush.	
		(05 hrs.)	
		122. Prepare wooden article&	
		apply varnish with spray.	
		(08hrs.)	
		123. Prepare wooden article&	
		apply melamine or PU	
		wooden finish with spray.	
		(08hrs.)	
		124. Make a wooden top with	
		thick layer of melamine	
		polish. (09hrs.)	
		125. Prepare wooden surface	Paint-
		properly for painting. (05 hrs.)	Definition; classification and
		126. Apply wood primer by brush	use.
		(05 hrs.)	Pigment, Binders, Solvent, oil,
		127. Make putty for wood	dryers;
		finishing. (05 hrs.)	additives.
		128. Apply putty & prepare	Painting- Definition and
		wooden surface properly.	importance of
		(05hrs.)	painting.
		129. Do paint wooden surface	(09hrs)
		properly with brush (05hrs.)	
		130. Prepare & spray painting on	Method of wooden surface
		different furniture taking all	painting.
		precautions. (25 hrs.)	(09 hrs)
Professional	Develop internal	131. Prepare ceiling surface for	Types, uses of building (wall)
Skill 225 Hrs;	and external	lime wash. (05 hrs.)	paints. Wall primer- Water
	Building painting by	132. Prepare wall surface for	base / Oil base, types of putty



Professional	using different	lime wash. (05 hrs.)	for wall. Mixing, Preparation
Knowledge	decorative press.	133. Apply POP on wall for lime	process of Lime and Distemper.
81 Hrs		painting. (03 hrs.)	Other required Equipments-
		134. Make & mixing of lime &	Below lamp, bucket, plum-bob,
		stainer. (02 hrs.)	putty blender, Paint strainer.
		135. Apply Lime on ceiling & wall	Types of Trestle, ladder,
		with brush properly.	scaffolding.
		(10 hrs.)	(18hrs)
		136. Prepare ceiling & wall for	
		distemper painting. (05 hrs.)	
		137. Make wall putty for	
		distempering. (02 hrs.)	
		138. Apply wall putty	
		with finish & prepare wall	
		surface. (08 hrs.) 139. Mixing & apply a distemper	
		properly for wall. (10 hrs.)	
		140. Prepare ceiling & wall surface	Colour selection for interior
		with putty & Apply interior	wall painting and
		emulsion paint. Use roller &	use of Paints. Effects;
		brush. (25 hrs.)	Intention; Purpose of
		141. Prepare office & work shop	colors. Paint mixing and
		interior wall surface with	preparation
		putty, Apply enamel or luster	process. Difference between
		paint. (25 hrs.)	emulsion paint and Oil paint.
			(18hrs)
		142. Make scaffolding for exterior	Color selection for exterior
		wall painting. (05hrs.)	wall painting and use of Paints.
		143. Clean exterior wall aria with	Method of paint mixing and
		cleaning process & water	preparation. Paint used for
		pressure process (05 hrs.)	exterior wall painting. (18hrs)
		144. Prepare exterior wall with	
		white cement for painting.	
		(08 hrs.) 145. Paint the prepared wall by	
		brush with cement paint. (08	
		hrs.)	
		146. Prepare exterior wall with	
		-1	



		exterior priming for painting.	
		(10 hrs.)	
		147. Paint the prepared wall by	
		brush with emulsion paint.	
		(10hrs.)	
		148. Decorate the projection with	
		dark shade apply special	
		shades of emulsion colour.	
		(04 hrs.)	
		149. Decorate the wall with	Difference between brush
		design roller/ stamp/ stencil.	painting and Roller painting.
		(25 hrs.)	Types of Roller and
		150. Prepare wall & create texture,	preparation of texture for
		use different medium,	wall painting. (18hrs)
		colour& make a different	
		textures. (25 hrs.)	
		151. Prepare wall & design wall	Wall defects and defects
		paper pasting on wall (10	removal process of wall
		hrs.)	painting. (9hrs)
		152. Find the defect on wall before	
		painting and	
		remove it. (08 hrs.)	
		153. Find the defect on wall after	
		painting and remove it. (07	
		hrs.)	
Professional	Choose different	154. Prepare & paint by brush	Building Painting estimate &
Skill 100Hrs;	pipes as per safety	windows, grill, doors, safety	costing. (18hrs)
	aspect and apply	doors, gate etc. (20 hrs.)	
Professional	line painting with	155. Paint a ceiling and wall with	
Knowledge	colour code.	dip-feed roller / pad or airless	
36Hrs		spray. (20 hrs.)	
		156. Paint the GI pipe, take all	Intention and effects of pipe
		precautions while painting.	line painting, Colour Codes of
		(08 hrs.)	pipe line painting. ISI colour
		157. Paint the sanitary pipe, take	code.(18hrs)
		all precautions while painting.	
		(08 hrs.)	
		158. Paint the MS square & round	



		pipe, take all precautions while painting. (09 hrs.) 159. Paint deferent pipe line with colour code as per ISI. (15 hrs.) 160. Demonstrate knowledge of safety procedures in Industrial pipe line painting (Demo by video & charts). (10 hrs.) 161. Identify colour code wise—Pipe lines, different types of	
Professional	Process of cleaning	valves. (10 hrs.)	Corrosion- Definition and
Professional Skill 125Hrs; Professional Knowledge 45Hrs	Process of cleaning and painting on metal surface for preventive coat.	 162. Scrap thecorrode metal surface. (08 hrs.) 163. Clean the metal surface by w ire brush or orbital wire brush. (08 hrs.) 164. Burn the old paint from metal surface by blow lamp or gas flame. (08 hrs.) 165. Do dry sanding with help of emery paper/cloth (06 hrs.) 166. Apply wet sanding on old painted object. (06 hrs.) 167. Clean the metal surface by Sander machine. (06 hrs.) 168. Level different metal surface by portable hand grinder. 	Corrosion- Definition and classification. Reasons for rusting and effect of climate. Different anti-rusting process. (18hrs)
		(08 hrs.) 169. Apply degreasing process on metal surface. (05 hrs.) 170. Apply de-rusting or pickling process on corrode metal. (06 hrs.) 171. Treated phosphating on metal surface with all pretreatment process. (08 hrs.)	Metal surface - types and selection of sanding paper (polish paper). Metal surface cleaning- Mechanical and chemical cleaning. (Dry/ wet Sanding, scraping, wire brushing, orbital wire brushing, paint burning, sand



		172. Demonstrate practical of and shot-blasting, pickling	g and
		Different types of, Industrial phosphating). (09hrs)	
		Pt system by video. (06 hrs.)	
		173. Make a proper thin metal Metal Primer - Ty	ypes,
		primer for brush application. Purpose, application and	use.
		(02 hrs.) Types of sur	rface.
		174. Prepare metal surface & Types of solvent or reduce	ers /
		apply ready primer on metal thinner/ automotive p	aints
		surface by brush. (05 hrs.) (Enamel, NC, Stoving,	PU,
		175. Apply enamel / polyester Epoxy, rubber base so	ound
		putty or filler on primed deadener paint, metallic, p	oearl,
		surface. (08 hrs.) water base automotive pa	aint),
		176. Apply enamel paint on lacquer. (09hrs)	
		primed metal surface. (10	
		hrs.)	
		177. Prepare and paint metallic Types of painting pro-	cess-
		article by brush. (15 hrs.) Traditional and mo	dern
		178. Prepare & colour making for technology. Ex Brus	hing,
		deep painting. (01 hr) Deeping, barreling, Aer	osol,
		179. Prepare article for deep roller coating, suction s	pray,
		painting. (04 hrs.) vertical spray, pressure ve	essel,
		180. Demonstrate practical of spray airless, electrosi	tatic,
		Electro coat Deeping process powder coating etc. (09hrs	;)
		& conveyor system by video.	
		(05 hrs.)	
Professional	Identify, replace	181. Identify pneumatic Spray Gun - Principles of s	spray
Skill 25Hrs;	and assemble	components – Compressor, painting, spray gun access	ories
	different	pressure gauge, Filter- and their function diffe	erent
Professional	pneumatics and	Regulator-Lubricator (FRL) types of spray guns. Holdin	ng of
Knowledge	paint gun.	unit, and Different types of spray gun and st	troke
09Hrs	[Different	valves and actuators. (05 adjustment. Types of s	spray
	components-	hrs.) painting met	thod.
	Compressor,	182. Demonstrate knowledge of Air compressor	for
	Pressure Gauge,	safety procedures in spray Painting Process. Requ	uired
	Filter Regulator,	systems and personal instruments for spray pain	nting.
	Valve for hose]	Protective Equipment (PPE) (09hrs)	
		(orally & video). (05 hrs.)	
		183. Maintenance,	



			troubleshooting, and safety aspects of pneumatic and Painting instruments (The practical for this component may be demonstrated by video) (15 hrs.)	
Professional	Perform Spray	19/	Knowledge & Inspect spray	Description of spray painting
Skill 25 Hrs;	Painting technique.	104.	gun holding and stroke	
JKIII 23 1115,	(Spray Gun / hose		adjustment, Paint	plant. Types of booth, description of booth, care and
Professional	handling, air &		adjustment, air adjustment	maintenance of spray booth.
Knowledge	paint pressure		techniques. (15 hrs.)	(09hrs)
09 Hrs	controlling,)	185	Spraying practice on the	(333)
333	555		surface like as edges, corner,	
			square, round & curved area.	
			(10 hrs.)	
Professional	Operate the system	186.	Operate, maintenance,	Types of oven for painting.
Skill 25 Hrs;	of spray booths,		troubleshooting, and safety	Description of oven and its
,	Oven, cleaning &		aspects of paint spray booth.	care.
Professional	their maintenance,		(08 hrs.)	Sealant - Definition and
Knowledge	application of	187.	Operate, and safety aspects	description. Purpose of sealant
09 Hrs	sealant component		of Oven Setting, temperature	application - edge protection;
	on metallic joints.		& timing. (08 hrs.)	prevention of water leakage.
		188.	Apply sealant on metallic	(Hiding the metal joint/clinch).
			joints. (09 hrs.)	(09hrs)
Professional	Perform aspect	189.	Paint preparation & mixing	Paint viscosity - importance,
Skill 50 Hrs;	ratio mixing of		for spray painting. (05 hrs.)	method of the paint viscosity.
	paint, hardner&	190.	Practice to Measure the	Paint preparation & mixing for
Professional	solvent. Measure		viscosity of paint. (10 hrs.)	different application. (09hrs)
Knowledge	Viscosity of paint.	191.	Spray Painting practice on	
18 Hrs	Operate the Spray		ornamental objects, with	
	painting system.		deferent types of paints.	
		400	(10 hrs.)	Inducad alle
		192.	Spraying metallic primer on	Introduction and uses of
		102	metal surface. (05 hrs.)	Pressure feed. (09hrs)
		193.	Apply Car patch, Putty, Filler	
			on metallic surface & prepare it (10 brs.)	
			it. (10 hrs.)	



		194. Spraying Surfacer on primed or putty finish surface. (05 hrs.)195. Spraying finish Top Coat on	
		prepared job. (05 hrs.)	
		* Use enamel/ N.C. paints. (Or	
		latest paints.)	
Professional	Identify and apply	196. Prepare the surface of home	Airless and Electrostatic Spray
Skill 100 Hrs;	of spray painting in	appliances (ex- fan, cooler,	painting. (09hrs)
	Home appliances,	fridge, washing machine	
Professional	Agricultural	etc.). (07 hrs.)	
Knowledge	equipment's,	197. Priming & surfacing on	
36 Hrs	Machines,	home appliances. (09 hrs.)	
	Automotive Bodies	198. Apply finish undercoat & top	
	etc.	coat on home appliances. (09	
		hrs.)	
		* Use enamel/ N.C./ P.U. paints-	
		Solid/ Metallic/ Pearl/.	
		199. Prepare the surface of	Process of article and machine
		machine (ex- lath, drilling,	painting. (09hrs)
		grinding, compressor, suing	
		machine etc.). (07 hrs.)	
		200. Priming & surfacing on	
		machine. (09 hrs.)	
		201. Apply finish undercoat & top	
		coat on machine. (09 hrs.)	
		* Use Enamel/ Epoxy/N.C./ P.U.	
		/paints. (Or latest paints.)	Carry Dragges of repainting
		202. Prepare the Tow wheeler	Car: Process of repainting.
		body and spares surface. (07	(Removal of dent, car patch,
		hrs.) 203. Priming & surfacing the Tow	putty process, metal primer, surface, paint) Spray painting.
		wheeler body and spares	Types of paint defects & its
		surface. (09 hrs.)	remedies. Importance of
		204. Apply finish undercoat & top	polishing, removal defects by
		coat on Tow wheeler body	polishing. (18hrs)
		and spares surface. (09 hrs.)	
		. ,	



		Use Automotive paints.	
		Apply Graphic sticker on painted	
		surface properly & apply lacquer	
		coat evenly.	
		Use Enamel/ N.C./ P.U. paints/-	
		Solid/ Metallic. (Or latest paints.)	
		205. Identify the parts of	
		Electrostatic gun assembly &	
		operate it carefully. (08 hrs.)	
		206. Identify the parts of	
		Airless gun assembly &	
		operate it carefully. (08 hrs.)	
		207. Demonstrate practical of	
		Different types of Spray	
		painting, Industrial Painting	
		system by video. (09 hrs.)	
Professional	Removal of dents &	208. Dissemble essential damage	Removal of defects by
Skill 100 Hrs;	recover the	parts, inspect & mark denting	polishing. Removal dented aria
	damaged	aria. Choose & decide	on the different surface, types
Professional	accidental area.	process tools for denting. (10	of denting process. (27hrs)
Knowledge	Repaint &	hrs.)	
36 Hrs	recovering	209. Removed dent on marked	
	damaged area.	aria, apply essential method.	
		(18 hrs.)	
		210. Do sanding or burn on	
		denting area & apply primer	
		& surface. Apply putty layer	
		on necessary area evenly.	
		(16 hrs.)	
		211. Use wet sanding, level	
		denting surface aria, apply	
		thin coat of surface. (06 hrs.)	
		212. Masking on unwanted aria	
		properly. (07 hrs.)	
		213. Match the shade Overlay	
		proper equally on unmask	
		aria. (07 hrs.)	
		214. Unmasked the mask aria	



		carefully & checkout prop	
		& touch-up it by neces	ssary
		process. (05 hrs.)	
		215. Apply final coat rub and	wax
		properly & matched it.	(06
		hrs.)	
		216. Demonstrate knowledge	e of Types of paint defects & its
		Paint defects & its reme	dies. remedies. Importance of
		(video). (05 hrs.)	polishing, removal defects by
		217. Check & Find out diffe	erent polishing. (09hrs)
		paint defects (run de	own,
		sagging, pin hole, or	ange
		peel, oil & water spot, o	over/
		dry spray, uncover sl	hade
		variation etc.). (05 hrs.)	
		218. Mark the defected a	area,
		Decide Techniques & a	apply
		remedies properly. N	Лаke
		finished surface. (15 hrs.)	
Professional	Finish special	219. Process Finish special ef	fects Furniture making is a multiple
Skill 25 Hrs;	effects for Modern	on different furniture	e & skills, using different
	furniture.	different surface. (like	as- applications on one object like
Professional		colour gradations, n	nalty Painting, Polishing, Varnishing,
Knowledge		tones applying, diffe	erent Waxing, staining, PU coating
09 Hrs		textures, etc.). (25 hrs.)	textures creating etc. (09hrs)
Professional	Identify different	220. Prepare & Clean	the Operating system of
Skill 25 Hrs;	types of powder	metallic article in cher	mical Powder coating technique.
	coating and apply	(degreasing, de-rus	ting, Chemical cleaning process,
Professional	the Powder coating	activation, phosphe	eting, Types of coating powders.
Knowledge	technique in	passivation & water rains	ssing (09hrs)
09 Hrs	appropriate place.	as required etc.) (08 hrs.)	
		221. Proceed powder coating	g on
		cleaned article & bake	it in
		oven in approp	riate
		temperature & timing.	(17
		hrs.)	



Professional	Integrate quality	222. Demonstrate knowledge of	Different types of paints &
Skill 25 Hrs;	testing for various	Paint defects & its remedies.	painted surface testing
	Paints & Painted	(video). (10 hrs.)	equipments, Types of testing
Professional	films.	223. Test the quality of paints &	methods.
Knowledge		Painted surfaces by various	Use & care. (09hrs)
09 Hrs		method & instruments. (15	
		hrs.)	

Industrial Visit / Project Work

Broad areas:

- a) Make a Sample of different painting types of defects on metal plates.
- b) Decorate small furniture or article.
- c) Paint & decorate kids Toys by spray.(ex-small cars, doll, etc.)
- d) Powder coating article like as gate lamp assembly, keychain, metallic toys.