

GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP DIRECTORATE GENERAL OF TRAINING

COMPETENCY BASED CURRICULUM

PAINTER (GENERAL)

(Duration: Two Years)

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL-5



SECTOR – CONSTRUCTION



PAINTER (GENERAL)

(Engineering Trade)

(Revised in 2019)

Version: 1.2

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL-5

Developed By

Ministry of Skill Development and Entrepreneurship

Directorate General of Training

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1. COURSE INFORMATION

During the two years duration of Painter (General) trade, a candidate is trained on Professional Skill, Professional Knowledge, Engineering Drawing, Workshop Calculation & Science and Employability Skill related to job role. In addition to this, a candidate is entrusted to undertake project work and extracurricular activities to build up confidence. The broad components covered under Professional Skill subject are as below:-

<u>FIRST YEAR-</u>The practical part starts with practice different types of sketching, ability to synthesize of free hand sketching of different objects etc. Identifying the paper, colour schemes and compose different types of colour shade expertise in 2D design. He will also practice sketches of different types of letters with colour shades. The safety aspect covers components like PPE, Fire extinguisher, First Aid.

The trainees undergo allied trade training viz. basic fitting, marking, chiseling, filing, drilling and pipe fitting etc. He will practice for manufacturing of simple sheet metal items as per drawing and join them by riveting. Execute different types of operating system and explore the working on DTP, corel draw, photo shop etc. Involved to making of different shapes in ornamental design, text, symbols etc. Produce sign board, name plate and preparing back ground painting, screen printing.

<u>Second Year</u>—In this year the trainees covers to development of craft work and artistic work on radium/vinyl/thermocol etc. He will also learn the techniques of decorative painting on wooden surface. Practice on internal and external building painting by using different decorative press. He will also learn painting of windows, grill, doors and different metal surface and pipes.

The trainees will practice the process of cleaning and painting on metal surface for preventive coating. Maintenance of different pneumatic components of paint gun, compressor, filter, pressure gauge, regulator, valve etc. Practicing of spray painting technique and also work on spray booths. Finding out the aspect ratio of missing of paint, hardener and solvent. Identify and apply of spray painting in home appliances, agricultural equipments and automotive bodies after removing of dents and recover the damaged parts. Identifying different types of power coating and apply the power coating technique in appropriate place. He will also integrate quality testing for various paints and painted films.



2.1 GENERAL

The Directorate General of Training (DGT) under Ministry of Skill Development & Entrepreneurship offers a range of vocational training courses catering to the need of different sectors of economy/ Labour market. The vocational training programmes are delivered under the aegis of Directorate General of Training (DGT). Craftsman Training Scheme (CTS) with variants and Apprenticeship Training Scheme (ATS) are two pioneer schemes of DGT for strengthening vocational training.

The 'Painter (General)' trade under CTS is one of the popular newly designed courses. The course is of two years duration. It mainly consists of Domain area and Core area. The Domain area (Trade Theory & Practical) impart professional skills and knowledge, while Core area (Workshop Calculation & science, Engineering Drawing and Employability Skills) impart requisite core skill, knowledge and life skills. After passing out the training program, the trainee is awarded National Trade Certificate (NTC) by DGT which is recognized worldwide.

Trainee broadly needs to demonstrate that they are able to:

- Read & interpret technical parameters/documentation, plan and organize work processes, identify necessary materials and tools;
- Perform tasks with due consideration to safety rules, accident prevention regulations and environmental protection stipulations;
- Apply professional knowledge, core skills & employability skills while performing the job, and repair & maintenance work.
- Document the technical parameters in tabulation sheet related to the task undertaken.

2.2 PROGRESSION PATHWAYS:

- Can join industry as Technician and will progress further as Senior Technician, Supervisor and can rise up to the level of Manager.
- Can become Entrepreneur in the related field.
- Can join Apprenticeship programs in different types of industries leading to a National Apprenticeship certificate (NAC).
- Can join Crafts Instructor Training Scheme (CITS) in the trade for becoming an instructor in ITIs.
- Can join Advanced diploma (Vocational) courses under DGT as applicable.



2.3 COURSE STRUCTURE:

Table below depicts the distribution of training hours across various course elements during a period of two-years: -

S No.	Course Element	Notional Training Hours		
		1 st Year	2 nd Year	
1	Professional Skill (Trade Practical)	1000	1000	
2	Professional Knowledge (Trade Theory)	280	360	
3	Workshop Calculation & Science	80	80	
4	Engineering Drawing	80	80	
5	Employability Skills	160	80	
	Total	1600	1600	

2.4 ASSESSMENT & CERTIFICATION

The trainee will be tested for his skill, knowledge and attitude during the period of course through formative assessment and at the end of the training programme through summative assessment as notified by the DGT from time to time.

- a) The Continuous Assessment (Internal) during the period of training will be done by **Formative Assessment Method** by testing for assessment criteria listed against learning outcomes. The training institute has to maintain individual *trainee portfolio* as detailed in assessment guideline. The marks of internal assessment will be as per the formative assessment template provided on www.bharatskills.gov.in.
- b) The final assessment will be in the form of summative assessment. The All India Trade Test for awarding NTC will be conducted by Controller of examinations, DGT as per the guidelines. The pattern and marking structure is being notified by DGT from time to time. The learning outcome and assessment criteria will be basis for setting question papers for final assessment. The examiner during final examination will also check individual trainee's profile as detailed in assessment guideline before giving marks for practical examination.



2.4.1 PASS REGULATION

For the purposes of determining the overall result, weightage of 100% is applied for six months and one year duration courses and 50% weightage is applied to each examination for two years courses. The minimum pass percent for Trade Practical and Formative assessment is 60% & for all other subjects is 33%. There will be no Grace marks.

2.4.2 ASSESSMENT GUIDELINE

Appropriate arrangements should be made to ensure that there will be no artificial barriers to assessment. The nature of special needs should be taken into account while undertaking the assessment. Due consideration should be given while assessing for teamwork, avoidance/reduction of scrap / wastage and disposal of scrap/waste as per procedure, behavioral attitude, sensitivity to the environment and regularity in training. The sensitivity towards OSHE and self-learning attitude are to be considered while assessing competency.

Assessment will be evidence based comprising the following:

- Job carried out in labs/workshop
- Record book/ daily diary
- Answer sheet of assessment
- Viva-voce
- Progress chart
- Attendance and punctuality
- Assignment
- Project work

Evidences and records of internal (Formative) assessments are to be preserved until forthcoming examination for audit and verification by examining body. The following marking pattern to be adopted while assessing:

Performance Level	Evidence
(a) Weightage in the range of 60%-75% to be al	llotted during assessment
For performance in this grade, the candidate should produce work which demonstrates	Demonstration of good skill in the use of hand tools, machine tools and workshop
attainment of an acceptable standard of craftsmanship with occasional guidance, and due regard for safety procedures and	Below 70% accuracy achieved while



(b) Weightage in the range of 75%-90% to be a	 demanded by the component/job. A fairly good level of neatness and consistency in the finish. Occasional support in completing the project/job.
For this grade, a candidate should produce work which demonstrates attainment of a reasonable standard of craftsmanship, with little guidance, and regard for safety procedures and practices	 Good skill levels in the use of hand tools, machine tools and workshop equipment. 70-80% accuracy achieved while undertaking different work with those demanded by the component/job. A good level of neatness and consistency in the finish. Little support in completing the project/job.
(c) Weightage in the range of more than 90% t	to be allotted during assessment
For performance in this grade, the candidate, with minimal or no support in organization and execution and with due regard for safety procedures and practices, has produced work which demonstrates attainment of a high standard of craftsmanship.	 High skill levels in the use of hand tools, machine tools and workshop equipment. Above 80% accuracy achieved while undertaking different work with those demanded by the component/job. A high level of neatness and consistency in the finish. Minimal or no support in completing the

project.



Painter, General applies decorative or protective coats of paint, varnish, shellac, enamel, lacquer or other materials on exterior or interior surfaces, trimming and fixtures of glass, metal, wood, plaster concrete brick, building boards or other objects using brush, spray gun, roller, stencils etc. Receives work order and selects correct type of paint materials with the consideration to suitability, durability, ease of application and estimated cost. Mixes pigments, oils and other ingredients to material where required by manual or mechanical mixing device using paddle or electric mixer to obtain desired colour, shade and consistency. Removes dirt, grease or rough spots and irregularities by scrapers, chemicals and abrasives and patches cracks and holes with putty or other filler. Covers surface with appropriate prime coat or sealer to have suitable surface or base for paint. Brushes, sprays or stencils one or more coats of material on surfaces. May finish or decorate surfaces by gilding, silvering or painting over stencils. May be designated according to object coated or material used. May mix paint with linseed oil, colouring matter of materials, labour, etc. May erect scaffolds to facilitate work.

Plan and organize assigned work and detect & resolve issues during execution. Demonstrate possible solutions and agree tasks within the team. Communicate with required clarity and understand technical English. Sensitive to environment, self-learning and productivity.

Reference NCO-2015:

7132.0100 – Painter, General



4. GENERAL INFORMATION

Name of the Trade	PAINTER (GENERAL)
Trade Code	DGT/1030
NCO - 2015	7132.0100
NSQF Level	Level-5
Duration of Craftsmen Training	2 Years (3200 Hours)
Entry Qualification	Passed 8 th class examination.
Minimum Age	14 years as on first day of academic session.
Eligibility for PwD	LD, CP, LC, DW, AA, LV, DEAF, HH, AUTISM, ID, SLD, MI
Unit Strength (No. Of Students)	20 (There is no separate provision of supernumerary seats)
Space Norms	104 Sq. m
Power Norms	5 KW
Instructors Qualification	for:
1. Painter (General) Trade	B.Voc/Degree in Paint Technology/ Bachelor of fine arts from AICTE/UGC recognized Engineering College/ university with one-year experience in the relevant field. OR 03 years Diploma in Paint Technology/Painting from AICTE recognized board of technical education or relevant Advanced Diploma (Vocational) from DGT with two years' experience in the relevant field. OR NTC/NAC passed in the Trade of "Painter (General)" With three years' experience in the relevant field. Essential Qualification: Relevant National Craft Instructor Certificate (NCIC) in any of the variants under DGT. Note: Out of two Instructors required for the unit of 2 (1+1), one must have Degree/Diploma and other must have NTC/NAC qualifications. However both of them must possess NCIC in any of its variants.
2. Workshop	B.Voc/Degree in Engineering from AICTE/UGC recognized Engineering
Calculation & Science	College/ university with one-year experience in the relevant field. OR
	03 years Diploma in Engineering from AICTE recognized board of technical education or relevant Advanced Diploma (Vocational) from DGT with two years' experience in the relevant field. OR



NTC/ NAC in any one of the engineering trades with three years'
experience.
Essential Qualification:
National Craft Instructor Certificate (NCIC) in relevant trade.
OR
NCIC in RoDA or any of its variants under DGT.
B.Voc/Degree in Engineering from AICTE/UGC recognized Engineering
College/ university with one-year experience in the relevant field. OR
03 years Diploma in Engineering from AICTE recognized board of technical education or relevant Advanced Diploma (Vocational) from DGT with two years' experience in the relevant field. OR
NTC/ NAC in any one of the Mechanical group (Gr-I) trades categorized under Engg. Drawing / D'man Mechanical / D'man Civil with three years experience.
Essential Qualification: National Craft Instructor Certificate (NCIC) in relevant trade. OR
NCIC in RoDA / D'man (Mech /civil) or any of its variants under DGT.
MBA/ BBA / Any Graduate/ Diploma in any discipline with Two years'
experience with short term ToT Course in Employability Skills from DGT
institutes.
(Must have studied English/ Communication Skills and Basic Computer
at 12th / Diploma level and above)
OR
Existing Social Studies Instructors in ITIs with short term ToT Course in
Employability Skills from DGT institutes.
21 Years
As per Annexure – I

Distribution of training on hourly basis: (Indicative only)

Year	Total Hrs /week	Trade Practical	Trade Theory	Workshop Cal. & Sc.	Engg. Drawing	Employability Skills
1 st	40 Hours	25 Hours	7 Hours	2 Hours	2 Hours	4 Hours
2 nd	40 Hours	25 Hours	9 Hours	2 Hours	2 Hours	2 Hours





Learning outcomes are a reflection of total competencies of a trainee and assessment will be carried out as per the assessment criteria.

5.1 LEARNING OUTCOMES (TRADE SPECIFIC)

FIRST YEAR

- 1. Make different types of sketching viz., free Hand sketching of different objects, designing of different shapes, size, geometrical shapes of different objects following safety precaution.
- 2. Ability to synthesize of free Hand sketching of Human figures, Shading, Use graph & figure enlargement.
- 3. Identify of paper, colour schemes and compose different types of colour shade Expertise in 2D design.
- 4. Create different types of realistic objects viz., bird, animals, realistic human figure with application of colour shades.
- 5. Demonstrate with colour shades different types letters (Devanagari, roman, gothic, Text writing/ lettering) and apply them in appropriate place.
- 6. Plan and organize the work to make job as per specification applying different types of basic operation. [Basic fitting operation marking, Chiseling, Filing, Drilling, Pipe fitting]
- 7. Manufacture simple sheet metal items as per drawing and join them by riveting. (like-Screen frame, sign board, & hanging Paintings frame)
- 8. Execute different types of Operating System and explore the working on DTP, Corel Draw, Photo shop etc.
- 9. Produce stencils involving different shapes in ornamental design, text, symbols etc. operations for different medium like papers, cards, tin, foam board, observing procedure and check for accuracy.
- 10. Produce Sign board, Name plate. prepare back ground painting, screen printing, Observe finishing, lettering proportion & evenness

SECOND YEAR

- 11. Develop a craft work and artistic work on radium/ vinyl/ thermocol etc.
- 12. Identity different types of Plywood, MDF & low-quality wood and make wooden surface used various techniques, decorate, paint& make an attractive wooden article.
- 13. Develop internal and external Building painting by using different decorative press.
- 14. Choose different pipes as per safety aspect and apply line painting with colour code.



- 15. Process of cleaning and painting on metal surface for preventive coat.
- 16. Identify, replace and assemble different pneumatics and paint gun. [Different components—Compressor, Pressure Gauge, Filter Regulator, Valve for hose]
- 17. Perform Spray Painting technique. (Spray Gun / hose handling, air & paint pressure controlling,)
- 18. Operate the system of spray booths, Oven, cleaning & their maintenance, application of sealant component on metallic joints.
- 19. Perform aspect ratio mixing of paint, hardener & solvent. Measure Viscosity of paint. Operate the Spray-painting system.
- 20. Identify and apply of spray-painting in-Home appliances, Agricultural equipment's, Machines, Automotive Bodies etc.
- 21. Removal of dents & recover the damaged accidental area. Repaint & recovering damaged area.
- 22. Finish special effects for Modern furniture.
- 23. Identify different types of powder coating and apply the Powder coating technique in appropriate place.
- 24. Integrate quality testing for various Paints & Painted films.



	LEARNING OUTCOMES	ASSESSMENT CRITERIA			
	FIRST YEAR				
1.	Make different types of sketching viz., free Hand sketching of different objects, designing of different shapes, size,	Make a practice of different lines and strokes, nature forms like- flowers, leaves, trees, birds and animals Explain most useful for improving hand force and object proportion optically by free hands sketching practice. Explain importance of graphics & perspective.			
	geometrical shapes of different objects following safety precaution.	Draw geometrical shapes and construct for design. Draw free hand geometrical forms in perspective. Draw free hand different types of perspective.			
2.	Ability to synthesize of free Hand sketching of Human figures, Shading, Use graph & figure enlargement.	Draw free hands sketching practice of human figures. Test & verify types of pencils. Develop the anatomy of human figures (Male, female & children) Draw black & white/ colour pencil shading of human figures Make with graph and figure enlargement with pencil. Find and rectify trade tools and equipments and draw with shading.			
3.	Identify of paper, colour schemes and compose different types of colour shade Expertise in 2D design.	Marking & Cutting different Drawing Paper as per given size. Identify and draw Colour wheel with poster colour. Draw & Colour Design in primary, Secondary & Tertiary colours. Marking & Out line Drawing 2D Design. Colouring 2D design in Warm & Cool Colour. Make 2D design & Colour in Contrast colours. Identify and make colour shades: Make gray scale in pencil shading. Make gray scale in poster colour. Make different colour Scale in poster colour. Make 2D Design in different composition paint in High key, middle key & low key.			



	Make practice of colour mixing & matching touch-up on
	damage posters & photographs.
4. Create different types of	Collect and observe pictures of birds and animals.
realistic objects viz., bird,	Draw and sketch proportionally observed pictures.
animals, realistic human	Make a colour realistic drawing of Birds as per reference.
figure with application of	Make a colour realistic drawing of Animals as per reference
colour shades.	compare it and verify.
	Observe different colour photographs & pictures, draw &
	colour realistic drawing of Human figure.
	Mounting for better presentation of Painted pictures.
	Observe different nature spots, make a good composition on
	paper and draw Land Scape.
	Make practice match the colour from nature & colouring
	Landscape in water/ poster colour.
	Enlargement practice of pictures by graph on different picture
	& paint it as per referred drawing.
	Compose, draw & colour Safety or Related Trade Poster.
	Enlarge the Sketch and colour Cinema Posters.
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5. Demonstrate with colour	Sketching & colouring gothic letters in English.
shades different types letters	Sketching & colouring gothic letters in Mother Language.
(Devanagari, roman, gothic,	Sketching & colouring Roman letters.
Text writing/ lettering) and	Do free hand Strokes for Devanagari.
apply them in appropriate	Sketching & colouring Devanagari letters.
place.	Sketching & colouring Text or Italic letters.
6. Plan and organize the work	Marking on wood.
to make job as per	Apply holding & sawing on different size of wood.
specification applying	Work on teeth setting & sharpening of different saw.
different types of basic	Apply tenoninghalf cut on wooden border.
operation. [Basic fitting	Make setting of planers & sharpening on plane blade.
operation – marking,	
-	Do plane on different wooden surfaces.
Chiseling, Filing, Drilling,Pipe	
-	Do plane on different wooden surfaces.



		Identify & check different types of pipe.
		Do pipe cutting & threading
		Apply different types of pipe joint/ fitting of different materials
		& different diameter. (Use PVC pipe)
		Make joint/ fitting for rain water (Use PVC pipe)
		Make joint/ fitting for water pipe line (Use GI pipe)
		Make joint/ fitting for water pipe line (Use PVC pipe)
7.	Manufacture simple sheet	Make a simple lap joint.
	metal items as per drawing	Make a simple mitred half lap joint.
	and join them by riveting.	Make a simple Dovetail joint.
	(like- Screen frame, sign	Apply Joint fitting with nails, screw, glue etc.
	board, & hanging Paintings	Marking of straight lines, circles, profiles and various
	frame)	geometrical shapes.
		Cutting of straight lines, circles, profiles and various
		geometrical shapes on sheets with snips.
		Marking out of simple development.
		Marking out for fold for joints.
		Make the joint of hemming, form locked.
		Make the joint of grooved and knocked up single hem
		Make the joint of straight and curved edges form double
		hemming.
		Make cylindrical objects with joints.
8.	Execute different types of	Operate &familiarize with computer operating system.
	Operating System and	Operate paint software & draw freehand sketch &practiceon
	explore the working on DTP,	color bucket, eraser, pencil & all tools.
	Corel Draw, Photo shop etc.	Draw scenery like realistic in paint software
		Tool handling in photo shop familiarise with all hand tools.
		Make a different layer & create background, artistic text,
		design, images.
		Apply import photo image from file & scanner, edit photo
		images.
		Edit Image adjustment effects. & layer style effects.
		Edit special effect on different layer, colours, textures, filter
		effects.



		Create a colour advertise design for festival offer
		Develop export Design, image, photograph from Photoshop to
		other different format for different software's. & make a print
		& print file for different printers.
		Tool handling in Corel draw familiarise with all hand tools
		Apply select /move /copy /objects, retire skew, size Objects.
		Apply combine, shape, weld, trim, align, Group / Ungroup
		objects.
		Practice on add text & Format text create different heading &
		Sub-heading.
		Draw dimensionally objects. Creating special effects for
		backgrounds & related objects.
		Do graphical effects to tex.Creating symbols, logo, special
		effects.
		Make a flex design for marketing offers. Convert & Save to CD/
		DVD/ PD for final printing.
9.	Produce stencils involving	Create ornamental designs for stencils.
	different shapes in	Cut the stencils & make a print.
	ornamental design, text,	Draw simple sentence in different lettering stencil.
	symbols etc. operations for	Cutting & stencilling the letters.
	different medium like	
	papers, cards, tin, foam	
	board, observing procedure	
	and check for accuracy.	
10.	Produce Sign board, Name	Make sign board
	plate. Prepare back ground	Paint the background of sign board.
	painting, screen printing,	Make Figure Enlargement for sign board.
	Observe finishing, lettering	Draw and painting letters & design or logo on Sign Board.
	proportion & evenness.	Practice thePainting of name plate on different material
		SECOND YEAR
11.	Develop a craft work	Use manually ornamental design on radium or vinyl.
	andartistic work on radium/	Create symbol or image design by computer graphics.
	vinyl/ thermocol etc.	Cut it with plotter.



radium or vinyl. Make a lettering/ image/ symbol design for "Instruction board" by computer graphics, with help of radium or vinyl & cutting it with plotter, pasting on glass/ acrylic/ sun mica or different sheets. Create a design for wall decoration by computer in graphics & cut it on multi colour vinyl, paste on wall. 12. Identity different types of Plywood, MDF & low-quality wood and make wooden surface used various techniques, decorate, paint & make an attractive wooden article. Apply Cleaning, sanding, knotting, stooping, staining preparation on wooden surface properly for polish. Make & apply putty for varnishing & polishing. Apply Cleaning, sanding, knotting, stooping, staining preparation wooden surface properly for varnish. Apply varnish on prepared wooden surface with brush. Prepare wooden article & apply arnish with spray. Prepare wooden article & apply melamine or PU wooden finish with spray. Make a wooden top with thick layer of melamine polish. Prepare wooden surface properly for painting. Apply utty & prepare wooden surface properly. Do paint wooden surface properly with brush Prepare & spray painting on different furniture take the all precautions. 13. Develop internal and external Building painting by using different decorative press. Make & mixing of lime & Steiner. Apply POP on wall. Make & mixing of lime & Steiner. Apply Lime on ceiling & wall for distemper painting. Make wall putty of distemper properly for wall.		Do "Instruction board" on acrylic sheet with help of malty layer
Make a lettering/ image/ symbol design for "Instruction board" by computer graphics, with help of radium or vinyl & cutting it with plotter, pasting on glass/ acrylic/ sun mica or different sheets. Create a design for wall decoration by computer in graphics & cut it on multi colour vinyl, paste on wall. 12. Identity different types of Plywood, MDF & low-quality wood and make wooden surface used Various techniques, decorate, paint & make an attractive wooden article. Apply Cleaning, sanding, knotting, stooping, staining preparation on wooden surface properly for polish. Make & apply putty for varnishing & polishing. Apply polish on prepared wooden surface with cotton rags. Apply varnish on prepared wooden surface with brush. Prepare wooden article & apply walnish with spray. Prepare wooden article & apply melamine or PU wooden finish with spray. Make a wooden top with thick layer of melamine polish. Prepare wooden surface properly for painting. Apply wood primer by brush. Make a putty for wood finishing. Apply putty & prepare wooden surface properly. Do paint wooden surface properly with brush Prepare & spray painting on different furniture take the all precautions. 13. Develop internal and external Building painting by using different decorative press. Make & mixing of lime & Steiner. Apply Cleaning, sanding, knotting, stooping, staining preparation on wooden surface properly with brush Prepare ceiling & wall for distemper painting. Make wall putty for distemper painting. Make wall putty for distemper painting.		, , , , , , , , , , , , , , , , , , , ,
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with plotter, pasting on glass/ acrylic/ sun mica or different sheets. Create a design for wall decoration by computer in graphics & cut it on multi colour vinyl, paste on wall. Apply Cleaning, sanding, knotting, stooping, staining preparation on wooden surface properly for polish. Make & apply putty for varnishing & polishing. Apply Cleaning, sanding, knotting, stooping, staining preparation on wooden surface properly for polish. Make & apply putty for varnishing & polishing. Apply Delaning, sanding, knotting, stooping, staining preparation wooden surface properly for varnish. Apply varnish on prepared wooden surface with brush. Prepare wooden article & apply melamine or PU wooden finish with spray. Make a wooden top with thick layer of melamine polish. Prepare wooden surface properly for painting. Apply wood primer by brush. Make a putty for wood finishing. Apply putty & prepare wooden surface properly. Do paint wooden surface properly with brush Prepare & spray painting on different furniture take the all precautions. 13. Develop internal and external Building painting by using different decorative press. Make & mixing of lime & Steiner. Apply DOP on wall. Make & mixing of lime & Steiner. Apply Lime on ceiling & wall with brush properly. Prepare ceiling & wall for distemper painting. Make wall putty for distempering. Apply wall putty with finish & prepare wall surface.		
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Find the defects on wall after painting and remove it. 14. Choose different pipes as per safety aspect and apply line painting with colour code. Prepare Paint & painting on ceiling and wall. use dip-feed roller / pad or airless spray. Paint the GI pipe by brush. Paint the sanitary pipe of building. Take & care self precaution& safety. Paint the MS square & round pipe, take all precautions & safety while painting. Do Paint different pipe line with colour code as per ISI. Demonstrate knowledge of safety procedures in Industrial pipe line painting Identify colour code wise— Pipe lines, different types of valves. 15. Process of cleaning and painting on metal surface for preventive coat. Apply burn process on old paint from metal surface by blow lamp or gas flame.		Prepare wall & design wall paper pasting on wall.
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/ pad or airless spray. Paint the GI pipe by brush. Paint the sanitary pipe of building. Take & care self precaution& safety. Paint the MS square & round pipe, take all precautions & safety while painting. Do Paint different pipe line with colour code as per ISI. Demonstrate knowledge of safety procedures in Industrial pipe line painting Identify colour code wise— Pipe lines, different types of valves. 15. Process of cleaning and painting on metal surface for preventive coat. Do Scrap on corrode metal surface. Cleaning process of metal surface by wire brush or orbital wire brush. Apply burn process on old paint from metal surface by blow lamp or gas flame.	per safety aspect and apply	grill, doors, safety doors, gate etc.
Paint the GI pipe by brush. Paint the sanitary pipe of building. Take & care self precaution& safety. Paint the MS square & round pipe, take all precautions & safety while painting. Do Paint different pipe line with colour code as per ISI. Demonstrate knowledge of safety procedures in Industrial pipe line painting Identify colour code wise— Pipe lines, different types of valves. 15. Process of cleaning and painting on metal surface for preventive coat. Do Scrap on corrode metal surface. Cleaning process of metal surface by wire brush or orbital wire brush. Apply burn process on old paint from metal surface by blow lamp or gas flame.	line painting with colour	Prepare Paint & painting on ceiling and wall. use dip-feed roller
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15. Process of cleaning and painting on metal surface for preventive coat. Apply burn process on old paint from metal surface by blow lamp or gas flame.		line painting
painting on metal surface for preventive coat. Cleaning process of metal surface by wire brush or orbital wire brush. Apply burn process on old paint from metal surface by blow lamp or gas flame.		Identify colour code wise– Pipe lines, different types of valves.
painting on metal surface for preventive coat. Cleaning process of metal surface by wire brush or orbital wire brush. Apply burn process on old paint from metal surface by blow lamp or gas flame.		
for preventive coat. brush. Apply burn process on old paint from metal surface by blow lamp or gas flame.	15. Process of cleaning and	Do Scrap on corrode metal surface.
Apply burn process on old paint from metal surface by blow lamp or gas flame.	painting on metal surface	Cleaning process of metal surface by wire brush or orbital wire
lamp or gas flame.	for preventive coat.	brush.
<u> </u>		Apply burn process on old paint from metal surface by blow
Apply dry sanding with help of emery paper/cloth.		lamp or gas flame.
		Apply dry sanding with help of emery paper/cloth.



	Apply wet sanding on old painted object.
	Clean the metal surface by Sander machine.
	Do level the different metal surface by portable hand grinder.
16. Identify, replace and	Prepare metal surface & apply ready primer on metal surface
assemble different	by brush.
pneumatics and paint gun.	Apply enamel/ polyester putty or filler on primed surface.
[Different components-	Apply enamel paint on primed metal surface by brush.
Compressor, Pressure	Prepare and paint metallic article by brush.
Gauge, Filter Regulator,	Prepare & colour making for deep painting.
Valve for hose]	Prepare article for deep painting. (Cleaning, rubbing, sanding.)
	Explain the Electro coat Deeping process & conveyor system with all safety.
	Identify pneumatic components – Compressor, pressure
	gauge, Filter, Regulator, and Lubricator. Different types of
	valves.
	Explain the safety procedures in spray systems and personal
	Protective Equipment (PPE).
	Maintenance, troubleshooting, and safety aspects of
	pneumatic and Painting instruments.
17. Perform Spray Painting	Application of spray gun holding and stroke adjustment, Paint
technique. (Spray Gun /	adjustment, air adjustment techniques.
hose handling, air & paint	Spraying on the surface like as edges, corner, square, round &
pressure controlling,)	curved area.
18. Operate system of spray	Use and apply of paint spray booth& maintenance,
booths, Oven, cleaning &	troubleshooting, safety aspects.
theirmaintenance,	Use & Operation of Oven Setting, temperature & timing.
application of sealant	Apply sealant on metallic joints.
component on metallic	
joints.	
19. Perform aspect ratio mixing	Preparationof Paint mixingfor spray painting.
of paint, hardener &	Measure the viscosity of paint.
solvent. Measure Viscosity	Spray Painting on ornamental objects, with deferent types of
of paint. Operate the Spray	paints.



painting system.	Spraying metallic primer on metal surface.			
	Apply Carpatch, Puttyand Filleron metallic surface &			
	preparation.			
	Apply Surfacer on primed or putty finish surface.			
	Spraying finish application for Top Coat. Use of enamel/ N.C.			
	paints. (Or latest paints.)			
20. Identify and apply of spray-	Prepare the surface of home appliances.			
painting in-Home	Priming & surfacing process on home appliances.			
appliances, Agricultural	Apply finish undercoat & top coat on home appliances.			
equipment's, Machines,	Use enamel/ N.C/ P.U. paints- Solid/ Metallic/ Pearl.			
Automotive Bodies etc.	Application of preparing machine surface.			
	Priming & surfacing on machine.			
	Application of finish undercoat & top coat on machine.			
	Use Enamel/ Epoxy/N.C./ P.U. /paints. (or latest paints.)			
	Preparation of the two wheeler body and spares surface.			
	Priming & surfacing the Two wheeler body and spares surface.			
	Apply finish undercoat & top coat on two wheeler body and			
	spares surface. 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.)			
	Identify the parts of Electrostatic gun assembly & operate it			
	carefully.			
	Identify the parts of Airless gun assembly & Operate it carefully.			
	Demonstrate different types of Spray painting.			
21. Removal of dents & recover	Dissemble essential damage parts, inspect & mark denting			
the damaged accidental	area. Choose & decide process tools for denting.			
area. Repaint & recovering	Removed dent on marked area, apply essential method.			
damaged area.	Do sanding or burn on denting area & apply primer & surface.			
	Apply putty layer on spotted area evenly.			
	Use wet sanding, level denting surface area, procedure of thin			
	coat of Surfacer.			
	Masking process on unwanted area properly.			
	Match the shade Overlay proper equally on unmask area.			



	Unmasked the mask area carefully & checkout properly &		
	touch-up it by necessaryprocess.		
	Apply final coat rubbing and waxing process properly.		
	Demonstrate of Paint defects & its remedies.		
	Check & Find out different paint defects (run down, sagging,		
	pin hole, orange peel, oil & water spot, over/ dry spray,		
	uncover, shade variation etc.)		
	Mark the defected area, Decide Techniques & apply remedies		
	properly. Make Finished surface.		
22. Finish special effects	ApplyProcess of Finish special effects on different furniture &		
forModern furniture.	different surface. (like as- colour gradations, multi tones		
	applying, different textures, etc.)		
23. Identify different types of	Pretreatment& Clean the metallic article in		
powder coating and apply	chemical(degreasing, de-rusting, activation, phosphating,		
the Powder coating	passivation & water rinsing as where required etc.)		
technique in appropriate	Apply procedure of powder coating on cleaned article & baking		
place.	in oven withappropriate temperature & timing.		
24. Integrate quality testing for	Check and identify the Paint defects & its remedies.		
various Paints & Painted	Test the quality of paints & Painted surfaces by various testing		
films.	method & instruments.		



SYLLABUS FOR PAINTER (GENERAL) TRADE

FIRST YEAR

Duration	Reference Learning Outcome		Professional Skills (Trade Practical) With Indicative Hours	Professional Knowledge (Trade Theory)
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.)	



tions to be observed
etal workshop, sheet
Shearing machine-
parts and uses. (07
d measuring tools,
s, Prick punch, square
types and uses.
d mallets type-sheet
s, Soldering iron,
kes. (07 hrs)
d measuring tools,
s, Prick punch, square
types and uses.
d mallets type-sheet
s, Soldering iron,
kes. (14 hrs)



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



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.	
Duefessional	Idontity difforont	(10 hrs.)	Daliah nanar Timos and usas
Professional	Identity different types of Plywood,	117. Clean, sanding, knotting, stooping, staining preparation	Polish paper-Types and uses. Putty - Definition, their
Skill 100 Hrs;	MDF & low-quality	wooden surface properly for	•
Professional	wood and make	polish. (05 hrs.)	material types and uses. Method of mixing & its
Knowledge	wood and make wooden surface	118. Make & apply putty for	different system of application.
36 Hrs	used various	varnishing & polishing. (05	Varnish - Definition; types and
50 1113	useu various	varinsining & polisining. (05	varmsii - Deminition, 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
	51 57	1	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,



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	
		170. I Tepare exterior wan with	



		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 - T	ypes,
		primer for brush application. Purpose, application and	use.
		(02 hrs.) Types of sur	rface.
		174. Prepare metal surface & Types of solvent or reduc	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 page	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	odern
		178. Prepare & colour making for technology. Ex Brus	shing,
		deep painting. (01 hr) Deeping, barreling, Aer	rosol,
		179. Prepare article for deep roller coating, suction s	pray,
		painting. (04 hrs.) vertical spray, pressure ve	essel,
		180. Demonstrate practical of spray airless, electros	tatic,
		Electro coat Deeping process powder coating etc. (09hrs	s)
		& 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. Holding	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 pair	nting.
	Valve for hose]	Protective Equipment (PPE) (09hrs)	
		(orally & video). (05 hrs.)	
		183. Maintenance,	



				1
			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	plant. Types of booth,
JKIII 23 1113,	(Spray Gun / hose		adjustment, Paint	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	· · · · · · · · · · · · · · · · · · ·
	3,,		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).
Dura C	Doute	400	joints. (09 hrs.)	(09hrs)
Professional	Perform aspect	189.	Paint preparation & mixing	Paint viscosity - importance,
Skill 50 Hrs;	ratio mixing of	100	for spray painting. (05 hrs.)	method of the paint viscosity.
Professional	paint, hardner& solvent. Measure	190.	Practice to Measure the viscosity of paint. (10 hrs.)	Paint preparation & mixing for different application. (09hrs)
Knowledge	Viscosity of paint.	191	Spray Painting practice on	amerent application. (031115)
18 Hrs	Operate the Spray	101.	ornamental objects, with	
	painting system.		deferent types of paints.	
	1 .0 - 10 - 10 - 10 - 10 - 10 - 10 - 10		(10 hrs.)	
		192.	Spraying metallic primer on	Introduction and uses of
			metal surface. (05 hrs.)	Pressure feed. (09hrs)
		193.	Apply Car patch, Putty, Filler	
			on metallic surface & prepare	
			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.)	
		202. Prepare the Tow wheeler	Car: Process of repainting.
		body and spares surface. (07	(Removal of dent, car patch,
		hrs.)	putty process, metal primer,
		203. Priming & surfacing the Tow	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 properly	
			& touch-up it by necessary	
			process. (05 hrs.)	
		215.	Apply final coat rub and wax	
			properly & matched it. (06	
			hrs.)	
		216.	Demonstrate knowledge of	Types of paint defects & its
			Paint defects & its remedies.	remedies. Importance of
			(video). (05 hrs.)	polishing, removal defects by
		217.	Check & Find out different	polishing. (09hrs)
			paint defects (run down,	
			sagging, pin hole, orange	
			peel, oil & water spot, over/	
			dry spray, uncover shade	
			variation etc.). (05 hrs.)	
		218.	Mark the defected area,	
			Decide Techniques & apply	
			remedies properly. Make	
			finished surface. (15 hrs.)	
Professional	Finish special	219.	Process Finish special effects	Furniture making is a multiple
Skill 25 Hrs;	effects for Modern		on different furniture &	skills, using different
	furniture.		different surface. (like as-	applications on one object like
Professional			colour gradations, malty	Painting, Polishing, Varnishing,
Knowledge			tones applying, different	Waxing, staining, PU coating
09 Hrs			textures, etc.). (25 hrs.)	textures creating etc. (09hrs)
Professional I	dentify different	220.	Prepare & Clean the	Operating system of
Skill 25 Hrs; t	types of powder		metallic article in chemical	Powder coating technique.
c	coating and apply		(degreasing, de-rusting,	Chemical cleaning process,
Professional t	the Powder coating		activation, phospheting,	Types of coating powders.
Knowledge t	echnique in		passivation & water rainssing	(09hrs)
09 Hrs a	appropriate place.		as required etc.) (08 hrs.)	
		221.	Proceed powder coating on	
			cleaned article & bake it in	
			oven in appropriate	
			temperature & timing. (17	
			temperature & timing. (17	



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.



SYLLABUS FOR CORE SKILLS

- 1. Workshop Calculation & Science(Common for two year course) (80Hrs + 80 Hrs)
- 2. Engineering Drawing (Common for Group-I (Mechanical Trade Group)) (80Hrs + 80 Hrs)
- 3. Employability Skills (Common for all CTS trades) (160Hrs + 80 Hrs)

Learning outcomes, assessment criteria, syllabus and Tool List of Core Skills subjects which is common for a group of trades, provided separately in www.bharatskills.gov.in.



	List of Tools & Equipment			
	PAINTER (GENERAL)	(For batch of 20 Candidates)		
SI. No.	Name of the Tools and Equipment	Specification	Quantity	
A. TRAINI	EES TOOL KIT			
1.	Rule steel	24" (600 mm.)	20+1 Nos.	
2.	Drawing Board	Imperial size	20+1 Nos.	
3.	Rule wooden (Consumable)	24" (600 mm.)	20+1 Nos.	
4.	Brush Round Short Hair- (Consumable)	0 to 12 No.	20+1 Nos.	
5.	Brush Flat Short Hair - (Consumable)	0 to 12 No.	20+1 Nos.	
6.	Varnish Brush soft hair- (Consumable)	25mm, 50mm, 75mm, 100mm	20+1 Nos.	
7.	Colour Pallet for water colour (Consumable)	Big size	20+1 Nos.	
8.	Stencil/ Paper Cutter (Consumable)	medium size	20+1 Nos.	
B. SHOP TO	OOLS, INSTRUMENTS			
Lists of To	ols and Equipments:			
9.	T' Square	Imperial size	2 Nos.	
10.	Easel 'a' Type stand		2 Nos.	
11.	Square Blade	150 mm	1 Nos.	
12.	Scriber		5 Nos.	
13.	Marking Gauge		1 Nos.	
14.	Wing Compass	254 mm or 300 mm	5 Nos.	
15.	Hand saw	450 mm	5 Nos.	
16.	Tendon Saw	300 mm	1 Nos.	
17.	Hack Saw with Frame		5 Nos.	
18.	Smoothing Plane		1 Nos.	
19.	Jack Plane		1 Nos.	
20.	Mallet Round		5 Nos.	
21.	Carpenter Hammer (Ball Pin)		2 Nos.	
22.	Hammer (Crass Pin)		2 Nos.	
23.	Hammer (Claw)		2 Nos.	



24.	Portable Electric Hand Drill Machine		1 Nos.
25.	Drill Bits (Consumable)	3 mm, 5mm, 8mm, 10mm, 12mm	1each
26.	Chisel Knife-	5mm, 8mm, 10mm, 20mm, 30mm	1each
27.	Hacking Knife		1 Nos.
28.	Palate Knife Set		5sets
29.	Diamond Glazier Knife		1 Nos.
30.	Paint Tin Opener		2 Nos.
31.	Scraper Knife		5 Nos.
32.	Shave Huck Knife		1 Nos.
33.	Glider Knife		5 Nos.
34.	Pliers Insulated		1 Nos.
35.	Paint Burner (Acetylene Gas)		1Set
36.	Blow Lamp		2 Nos.
37.	Screw Driver	100mm / 200mm	2 each
38.	Step Ladder (Aluminum)	6 feet	2 Nos.
39.	Scaffolding (Movable)	H 2000mm x W 1400mm x L 2000mm.	1 Nos.
40.	working Bench	240 cm X 120 cm X 75 cm	1 Nos.
41.	Bench Vice	125mm	2 Nos.
42.	Weight Per Litter Cup	100 ml capacity	1 Nos.
43.	Ford Cop for Viscosity Measurement with stand	No.3 & No.4	2 each
44.	Mild Steel Panels	300 mm X 200 mm (18 X 22 SWG)	20 Nos.
45.	Sink (Stainless steel)	H 250mm x W 450mm x L 600mm.	4 Nos.
46.	Fire Extinguisher		2 Nos.
47.	Fire Buckets with stand (4 in 1)		1 set
48.	Suction feed spray gun with accessories.	1 Ltr. Capacity of cup	2 Nos.
49.	Portable Electric Hand Grinder		1 Nos.
50.	Gloss Meter		1 Nos.
51.	Infra red lamp		2 Nos.
52.	Digital DFT meter		2 Nos.
53.	Orbital Sander Machine with dust collector		5 Nos.
54.	Aerograph (Air Brush/ Pen Gun)		1 Nos.
55.	Pneumatic Polishing Machine with Pads		5 Nos.
56.	Goggles (Consumable)		5 Nos.



57.	Face Mask & Respirator (Consumable)		5 Nos.
58.	Gloves (Rubber) (Consumable)		5 Nos.
59.	Pipe vice		2 Nos.
60.	Hacksaw		2 Nos.
61.	Pipe wrench	10"& 16"	2 Nos. each
62.	flat file- smooth finish	12"	2 Nos.
63.	Circular cut file	12"	2 Nos.
64.	Raft cut	12"	2 Nos.
65.	Pipe die set metric & Inches	Fine pitch	1 Set
66.	Gun Spray with Gravity Feed Cup with Complete accessories	with Complete accessories (Capacity- ¼ ltr. ,1/2 ltr. , 1/3ltr. , 1 ltr.)	2 Nos. each
67.	Conventional Spray Gun For Pressure Feed	with Complete accessories	2 Nos.
68.	Electric spray gun	with Complete accessories	1 Nos.
69.	Comb Gauge		2 Nos.
70.	Pencil Hardness Tester		2 Nos.
71.	Digital Weight Machine	Capacity 5 kg. weighing scale	1 No.
C. GENER	AL INSTALLATION		
72.	Air Compressor	3 Phase, 2 HP	1 Nos.
73.	Air Compressor	single Phase, 1 HP	1 Nos.
74.	Pressure Feed Container with Conventional	20 ltr. Capacity with Complete accessories	1 set
75.	Electrostatic spray Gun unit	with complete accessories	1 set
76.	Airless Spray Gun unit	with complete accessories	1 set
77.	Sealer Drum Press Pump with Sealer Gun Assembly	with complete accessories	1 set
78.	Side Draught Dry Paint Booth- Overall Dimensions (mm):	1580(W) x 2250(D) x 3200(H); Working Dimensions (mm): 1500(W) x 1320(D) x 2040(H)	1 Nos.
79.	Power Coating set up with Gun		1 Unit



80. 81. 82. 83. 84.	Stool Desk with Locker Metal Shelving Rack Open Type	1800 x 900 x 500 mm with 4	20 Nos. 20 Nos.
81. 82. 83.	Desk with Locker Metal Shelving Rack Open Type	1800 x 900 x 500 mm with 4	
82. 83.	Metal Shelving Rack Open Type	1800 x 900 x 500 mm with 4	20 Noc
83.		1800 x 900 x 500 mm with 4	ZU NUS.
		Adjustable Shelves	2 Nos.
84.	Steel Locker's with 8 Drawer's	One locker for each trainee	3 Nos.
	Green Glass Board	6'X4'	1 Nos.
85.	Cupboard		4 Nos.
86.	Instructor table and		1No.
87.	Instructor chair		2 Nos.
Designing I	Lab		
88.	Computers with Accessories	CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. RAM:-4 GB DDR-III or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch) Licensed Operating System and Antivirus compatible with trade related software.	10 sets
89.	Computer Table		10 nos.
90.	Students Chair		20 nos.
91.	Anti Virus (Latest Version)		7 Nos.
92.	Scanner High Resolution		1 Nos.
93.	Printer Lager/colour		1 Nos.
94.	Software Card Draw / Page Make/ Photo Shop / Shree Lippi / ISM / Acee - Dcee Viewer (Latest Version)		1 Each (Multi installer
95.	UPS		As required
96.	Camera Digital	Higher megapixel with Tri - Pod	1 Nos.
97.	Radium Plotter and cutter with stand	complete accessories 48"	1 Nos.



The DGT sincerely acknowledges contributions of the Industries, State Directorates, Trade Experts, Domain Experts, trainers of ITIs, NSTIs, faculties from universities and all others who contributed in revising the curriculum.

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List of Expert members participated for finalizing the course curriculum of Painter (General) at ITI,
Ambernath, Maharashtra and ITC, Vadodara, Gujarat.

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SI. No.	Name & Designation Sh./Mr./Ms.	Organization	Remarks		
Industry Expert					
1.	Laxmidas Hinduja, MD	Transpek Industries ltd, Gujarat	Chairman		
2.	S. A. Pandav, RDD, Vadodara	DET, Gujarat	Coordinator		
3.	L. K. Mukherjee, DDT	CSTARI, Kolkata	Coordinator		
4.	Akash Vergurlekar, Mechanical Maintenance Executive	VVF India Ltd. Taloja, Raigad	Member		
5.	Jayesh Karnik, Instrumentation Maintenance Executive- Engg. Service	-do-	Member		
6.	Pradeep Kumar Pandey, Asst. Deputy Manager	Century Rayon, Mumbai	Member		
7.	Deepak M Kanitkar, Executive	Huhtamaki PPL Ltd, Bansri, Thopoli, Raigad	Member		
8.	Atul D. Taksande, Sr. Executive P&A	Bombay Dyeing & Manufacturing Co., Patulganga	Member		
9.	K. M. Unni Krishnan, Sr. Manager HR & Admin.	ASB International Pvt. Ltd., Ambernath	Member		
10.	Ajit D. Bagwe, Manager- Molding	-do-	Member		
11.	Rohan Kadlay, General Manager	Siemens Ltd., Mumbai	Member		
12.	Vidyadhar Takle, Asst. Manager- Engg. Service	Godrej Industries Ltd., Ambernath	Member		
13.	Roshan Vagade, QC- Engineer	Indore Composite Pvt. Ltd. Mumbai	Member		
14.	Sandip D. Pisal, Asso. Chief Manager- Painter	Godrej & Boyce Manufacturing Co. Ltd, Mumbai	Member		
15.	Rajendra Agashe, Manager- HR	Asian Paints India ltd. Taloja	Member		
16.	Mahesh Bandekar, Coating Officer	Indore Composite Pvt. Ltd. Mumbai	Member		
17.	Prashant A Bhosale, Sr. Manager- Production	Jubilant Life Science Ltd., N-34 Additional, Ambernath	Member		



18.	Udayraj Ransing, Dy. Manager Engg.	-do-	Member	
19.	Satyandra Patra, Manager	Du Pont, Vadodara	Member	
20.	Varun Bhai, Manager	-do-	Member	
21.	Nitesh Chakraborty, Manager	-do-	Member	
22.	Chirag Mistry, Sr. Manager	Gromax Agri Equipment Ltd., Vadodara	Member	
23.	Ashish Solanki, Executive	-do-	Member	
24.	Ingle Kalpesh, Manager-HR	Kataria Automobiles Pvt. Ltd, Vadodara	Member	
25.	Amar Dherenge	Aldium Motors Pvt. Ltd., Vadodara	Member	
26.	Gopal Badgujar	Saidham Motors, Vadodara	Member	
DGT & Training Institute				
27.	S. P. Parmar, Principal	ITI Petlad, Gujarat	Member	
28.	R. S. Khule R.S., Craft Instructor	ITI, Nandurbar, Maharastra	Member	
29.	V.V. Ranalkar, Craft Instructor	ITI (G.) Nashik, Maharastra	Member	
30.	H. N. Bargal, TO	DVET, Mumbai	Member	
31.	P. K. Bairagi, TO	CSTARI, Kolkata	Member	



ABBREVIATIONS

CTS	Craftsmen Training Scheme
ATS	Apprenticeship Training Scheme
CITS	Craft Instructor Training Scheme
DGT	Directorate General of Training
MSDE	Ministry of Skill Development and Entrepreneurship
NTC	National Trade Certificate
NAC	National Apprenticeship Certificate
NCIC	National Craft Instructor Certificate
LD	Locomotor Disability
СР	Cerebral Palsy
MD	Multiple Disabilities
LV	Low Vision
НН	Hard of Hearing
ID	Intellectual Disabilities
LC	Leprosy Cured
SLD	Specific Learning Disabilities
DW	Dwarfism
MI	Mental Illness
AA	Acid Attack
PwD	Person with disabilities
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