



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

COMPETENCY BASED CURRICULUM

DOMESTIC PAINTER

(Duration: One Year)

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL- 4



SECTOR – CONSTRUCTION



Directorate General of Training

DOMESTIC PAINTER

(Engineering Trade)

(Revised in 2019)

Version: 1.2

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL - 4

Developed By

Ministry of Skill Development and Entrepreneurship
Directorate General of Training

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1. COURSE INFORMATION

During the one-year duration of “Domestic Painter” trade, a candidate is trained on Professional Skill, Professional Knowledge and Employability Skill related to job role. In addition to this, a candidate is entrusted to undertake project work, extracurricular activities and on-the-job training to build up confidence. The broad components covered under Professional skill subject are as below: -

In this year the trainees will recognize and comply safe working practices with PPE and MSDS. They will also learn hazard and non-hazard items, uses of firefighting equipment. They will also go through the allied training on carpenter, sheet metal work. Preparation of different types of wooden surface and painting on it. Knowledge of various pipe fittings, cutting and threading and also join/fittings of different materials of different diameters. They will practice on DTP, Corel draw and photo shop with different paint software. Create ornamental designs for stencils, cut it and make a print.

They will practice on building painting using different decorative painting. Paint and decorate exterior articles. Process on pipes & pipe line painting for hospitals & commercial buildings with colour code. Practice on plaster of Paris. (P.O.P.) Create Textures on wall surface. Process for Interior work in commercial places. Practice on Texture material for relief work. Offices and corporate spaces for modern painting work. They will also practice on Estimation & Planning for Home renovation with computer aided designing, 2-D-/3-D design, productive work of screen printing.

2. TRAINING SYSTEM

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 programmes of DGT for propagating vocational training.

Domestic Painter trade under CTS is one of the popular courses delivered nationwide through a network of ITIs. The course is of one-year duration. It mainly consists of Domain area and Core area. In 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 of the training programme, 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 and 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 & employability skills while performing the job and modification & maintenance work.
- Document the technical parameter 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 the apprenticeship program 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 one-year:

S No.	Course Element	Notional Training Hours
1	Professional Skill (Trade Practical)	1000
2	Professional Knowledge (Trade Theory)	280
3	Workshop Calculation & Science	80
4	Engineering Drawing	80
5	Employability Skills	160
	Total	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 have 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 the basis for setting question papers for final assessment. The examiner during final examination will also check** the 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 allotted during assessment	
For performance in this grade, the candidate should produce work which demonstrates attainment of an acceptable standard of craftsmanship with occasional guidance, and due regard for safety procedures and practices	<ul style="list-style-type: none"> • Demonstration of good skill in the use of hand tools, machine tools and workshop equipment. • Below 70% accuracy achieved while undertaking different work with those demanded by the component/job. • A fairly good level of neatness and consistency in the finish. • Occasional support in completing the project/job.
(b) Weightage in the range of 75%-90% to be allotted during assessment	
For this grade, a candidate should produce work which demonstrates attainment of a reasonable standard of craftsmanship, with little guidance, and	<ul style="list-style-type: none"> • 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

<p>regard for safety procedures and practices</p>	<p>component/job.</p> <ul style="list-style-type: none"> • A good level of neatness and consistency in the finish. • Little support in completing the project/job.
<p>(c) Weightage in the range of more than 90% to be allotted during assessment</p>	
<p>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.</p>	<ul style="list-style-type: none"> • 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.

Brief description of job roles:

Painter, Building; Painter, House applies coats of paint, varnish and other similar material to protect or decorate exterior and interior surface of buildings using spray gun, hand brush, etc. Selects paint materials. Mixes paints and matches colours by stirring together proper proportions of pigment, oil, thinner etc. and drying substances. Erects working scaffolding with bamboo poles and wooden planks or positions ladders at required height or places to be painted. Cleans surface packs, cracks and holes with mud fillers or mortar to prepare it for painting. Applies prime coat and allows it to dry. Brushes or sprays one or more coats of paint on surface to required finish. May finish and decorate surfaces with marble or brick and tile effects or by building silvering, stenciling etc.

Reference NCO-2015:

- (i) 7131.0100 - Painter, Building

4. GENERAL INFORMATION

Name of the Trade	DOMESTIC PAINTER
Trade Code	DGT/1112
NCO - 2015	7131.0100
NSQF Level	Level-4
Duration of Craftsmen Training	One year (1600 Hours)
Entry Qualification	Passed 10 th class examination or its equivalent.
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 Student)	24 (There is no separate provision of supernumerary seats)
Space Norms	80 Sq. m
Power Norms	2.5 KW
Instructors Qualification for	
1. Domestic Painter Trade	<p>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.</p> <p style="text-align: center;">OR</p> <p>03 years Diploma in Electrical/ Electrical and Electronics Engineering from AICTE/ recognized board of technical education or relevant Advanced Diploma (Vocational) from DGT with two years' experience in the relevant field.</p> <p style="text-align: center;">OR</p> <p>NTC/NAC passed in the Trade of "Domestic Painter" With three years' experience in the relevant field.</p> <p><u>Essential Qualification:</u> Relevant National Craft Instructor Certificate (NCIC) in any of the variants under DGT.</p> <p>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.</p>

<p>2. Workshop Calculation & Science</p>	<p>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 engineering trades with three years experience. Essential Qualification: National Craft Instructor Certificate (NCIC) in relevant trade NCIC in RoDA or any of its variants under DGT.</p>				
<p>3. Engineering Drawing</p>	<p>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 of the engineering trades with three years experience. Essential Qualification: National Craft Instructor Certificate (NCIC) in relevant trade NCIC in RoDA / D'man (Mech /civil) or any of its variants under DGT.</p>				
<p>4. Employability Skill</p>	<p>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 it is with training in Employability skills from DGT Institutes.</p>				
<p>5. Minimum age for Instructor</p>	<p>21 years</p>				
<p>List of Tools and Equipment</p>	<p>As per Annexure – I</p>				
<p>Distribution of training on Hourly basis: (Indicative only)</p>					
<p>Total Hrs /week</p>	<p>Trade Practical</p>	<p>Trade Theory</p>	<p>Workshop Cal. & Sc.</p>	<p>Engg. Drawing</p>	<p>Employability Skills</p>
<p>40 Hours</p>	<p>25 Hours</p>	<p>7 Hours</p>	<p>2 Hours</p>	<p>2 Hours</p>	<p>4 Hours</p>

5. LEARNING OUTCOME

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)

1. Perform marking, sawing, planning, Chiselling, Drilling following safety precautions.
2. Make a type of joints for different frames (like- Screen frame, sign board, & hanging Paintings frame.
3. Manufacture simple sheet metal items as per drawing and join them by soldering, brazing and riveting.
4. Apply Knowledge of various pipe fittings.
5. Work on Operating System, Practice on DTP, Corel Draw, Photo shop etc.
6. 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.
7. Produce Sign board, Name plate. prepare back ground painting, Observe finishing, lettering proportion & evenness.
8. Prepare wooden surface using various techniques, decorate & make an attractive wooden article.
9. Prepare different types of wooden surface & paint it Like Plywood, MDF & low-quality wood.
10. Develop Building painting using different decorative process.
11. Paint and decorate exterior articles.
12. Process on pipes & pipe line painting with colour code.
13. Use plaster of Paris. (P.O.P.) Create Textures on wall surface. Process for Interior work in commercial places. Use of Texture material for relief work. Offices and corporate spaces for modern painting work.
14. Estimate& Plan for Home renovation with computer aided designing, 2-D-/3-D design. Texture and light effects for school Building. Use of mural and landscapes in interior work.
15. Develop craftwork knowledge about radium & vinyl cutting manually as well as plotter, pasting, etc.
16. Produce productive work of screen printing.

6. ASSESSMENT CRITERIA

LEARNING OUTCOMES	ASSESSMENT CRITERIA	
1. Perform marking, sawing, planing, Chiselling, Drilling following safety precautions.	Marking Practice on wood.	
	Apply holding & sawing practice on different size of wood.	
	Work on teeth setting & sharpening of different saw.	
	Apply tenoning Half cut on wooden border.	
	Make setting of planers & sharpening on plane blade.	
	Do plane on different wooden surfaces.	
	Do chiselling slots on thick wood.	
2. Make a type of joints for different frames (like- Screen frame, sign board, & hanging Paintings frame)	Drilling on wood with different drilling tools (Gimlet, Hand Drill, Portable elect. drilling machine).	
	Make a simple lap joint.	
	Make a simple mitred half lap joint.	
	Make a simple Dovetail joint.	
	Apply Joint fitting with nails, screw, glue etc.	
	3. Manufacture simple sheet metal items as per drawing and join them by soldering, brazing and riveting.	Marking practice of straight lines, circles, profiles and various geometrical shapes.
		Cutting practice 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.		
4. Apply Knowledge of various pipe fittings	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)	
5. Work on Operating System, Practice on DTP, Corel Draw, Photo shop etc.	Operate & familiarize with computer operating system.	
	Operate paint software & draw freehand sketch & practice on color bucket, eraser, pencil & all tools.	
	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.
	Edit & Save image in PSD, JPEG & other format.
	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.	
6. 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.	Create ornamental designs for stencils.
	Cut the stencils & make a print.
	Draw simple sentence in different lettering stencil.
	Cutting & stencilling the letters.
7. Produce Sign board, Name plate. prepare back ground painting, Observe finishing, lettering proportion & evenness	Make sign board
	Paint the background of sign board.
	Make Figure Enlargement for sign board.
	Draw and painting letters & design or logo on Sign Board.
	Practice the Painting of name plate on different material
8. Prepare wooden surface using various techniques, decorate & make an	Apply Cleaning, sanding, knotting, stooping, staining preparation on wooden surface properly for polish.
	Make & apply putty for varnishing & polishing.

attractive wooden article.	Apply polish on prepared wooden surface with cotton rags.
	Apply Cleaning, sanding, knotting, stooping, staining preparation wooden surface properly for varnish.
	Apply varnish on prepared wooden surface with brush.
	Prepare wooden article & apply varnish with spray.
	Prepare wooden article & apply melamine or PU wooden finish with spray.
	Make a wooden top with thick layer of melamine polish.
9. Prepare different types of wooden surface & paint it. Like Plywood, MDF & low-quality wood.	Prepare wooden surface properly for painting.
	Practice of applying 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.
10. Develop Building painting using different decorative pr31.1.ss.	Prepare ceiling & Wall surface for lime wash. (Sanding & Cleaning)
	Apply POP 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.
	Mixing & apply a distemper properly for wall.
	Prepare ceiling & wall surface with putty & Apply interior emulsion paint. Use roller & brush.
	Prepare interior wall surface with putty, Apply enamel or luster paint.
	Making process of scaffolding for exterior wall painting.
	Clean exterior wall area with cleaning process & water pressure process.
	Prepare exterior wall with white cement for painting.
	Paint the prepared wall by brush with cement paint.
	Prepare exterior wall with exterior priming for painting.
Paint the prepared wall by brush with emulsion paint.	
Decorate the projection with dark shade apply special shades of	

	emulsion colour.
	Prepare wall & design wall paper pasting on wall.
	Find the defects on wall before painting and remove it.
	Find the defects on wall after painting and remove it.
11. Paint and decorate exterior articles.	Cleaning, Sanding, or wire brushing & paint by brush windows, grill, doors, safety doors, gate etc.
	Prepare Paint & painting on ceiling and wall. Use dip-feed roller / pad or airless spray.
12. Process on pipes & pipe line painting with colour code.	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 deferent pipe line with colour code as per ISI.
13. Use plaster of Paris. (P.O.P.) Create Textures on wall surface. Process for Interior work in commercial places. Use of Texture material for relief work. Offices and corporate spaces for modern painting work	Prepare Wall surface for POP work Use damping material.
	Prepare equal level for filling POP
	Procedure the Filling POP & make an equal level the selected area.
	Prepare a suitable border by Pop work (05 hrs.)
	Make a Simple 3D shapes of flowers, leafs, ornamental by POP
	Prepare & Compose the 3D parts, different texture material and assemble in frame & make a Finished 3D wall poster
	Do suitable colours & paint the 3D poster by spray.
14. Estimate & Plan for Home renovation with computer aided designing, 2-D-/3-D design. Texture and light effects for school Building. Use of mural and landscapes in interior work.	Make an estimate Different material use in different civil work. With Drawing a lay out
	Draw & create textures effects On different presentation material.
	Make a 3D Models of simple geometrical shapes.
	Make a 3D Models of simple ornamental shapes. & compose it.
15. Develop a craft work knowledge about radium & vinyl cutting manually as well as plotter, pasting, etc.	Use manually ornamental design on radium or vinyl.
	Create symbol or image design by computer graphics.
	Procedure of image design Cutting with plotter.
	Do "Instruction board" on acrylic sheet with help of multilayer 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.
16. Produce productive work of screen printing.	Make a wooden frame with bolting cloth.
	Create Art work on tracing for screen exposing.
	Coating solution & expose screen with ready art work,
	Develop exposed screen with cold water, touch up pin holes and nonprinting area, taping around inside.
	Apply cromoline film & expose work, develop screen for ready to printing.
	Prepare & registration Pining work on printing table.
	Do colour printing on selected cards/sheets.
	Apply screen de-coating process.

SYLLABUS FOR DOMESTIC PAINTER TRADE			
DURATION – ONE YEAR			
Duration	Reference Learning Outcome	Professional Skills (Trade Practical) With Indicative Hours	Professional Knowledge (Trade Theory)
Professional Skill 100 Hrs; Professional Knowledge 28 Hrs	Perform marking, sawing, planning, Chiseling, Drilling following safety precautions	<ol style="list-style-type: none"> 1. Introduction of trade skills and work application. (02hrs.) 2. Safety attitude development of the trainee by educating them to use personal protective equipment (PPE) and Material safety data sheet (MSDS). (05 hrs.) 3. First-aid method and basic training. (02 hrs.) 4. Safe disposal of waste materials like- cotton waste, waste paint and waste paint material etc. (02 hrs.) 5. Hazard and non-hazard identification and avoidance. (02hrs.) 6. Use of fire fighting equipment, like- extinguishers, sand bucket, water etc. (10 hrs.) 7. Identification of safety signs, like- Danger, warning, caution and personnel safety. (1hr.) 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.) 	Introduction of the Institution; rules and management (work) Process of an Institution. Knowledge about the facilities; leaves and rules and subjects a syllabus. Introduction of vocational trade, The importance of trade in the industrial Development of the nation Care in Vocational trade (14 Hrs)

		<p>12. Draw different sketches and hand writing practice. (15 hrs.)</p> <p>CARPENTER WORK:</p> <p>13. Marking Practice on wood. (07hrs.)</p> <p>14. Holding & Sawing Practice different size of wood. (10 hrs.)</p> <p>15. Teeth setting & sharpening of different saw. (05 hrs.)</p> <p>16. Tennening Half cut on wooden border. (05 hrs.)</p> <p>17. Setting of planers & sharpening on plane blade (05 hrs.)</p> <p>18. Plane on different wooden surfaces. (06 hrs.)</p> <p>19. Chiseling slots on thick wood. (06 hrs.)</p> <p>20. Drilling on wood with different drilling tools (Gimlet, Hand Drill, Portable elct. drilling machine. (06hrs.)</p>	<p>Carpenter - safety precaution description, Use hand tools, carpenter tools, types of wood their description & use common defects in timber & their effects. (14 hrs)</p>
<p>Professional Skill 25 Hrs;</p> <p>Professional Knowledge 07 Hrs</p>	<p>Make a types of joints for different frames (like- Screen frame, sign board, & hanging Paintings frames.</p>	<p>21. Make a simple lap joint. (05 hrs.)</p> <p>22. Make a simple mitred half lap joint.(05 hrs.)</p> <p>23. Make a simple Dovetail joint.(05 hrs.)</p> <p>24. Joint fitting with nails, screw,glue etc. (10 hrs.)</p>	<p>Equipments for joint, Joints - Types and uses of different types of joints. (07 hrs)</p>

<p>Professional Skill 75 Hrs; Professional Knowledge 21 Hrs</p>	<p>Manufacture simple sheet metal items as per drawing and join them by soldering, brazing and riveting.</p>	<p>SHEET METAL WORK: 17. Marking of straight lines, circles, profiles and various geometrical shapes and cutting the sheets with snips. (15 hrs.) 18. Marking out of simple development. (05 hrs.) 19. Marking out for flaps for joints. (05 hrs.) 20. Make various joints: hemming, form locked, grooved and knocked up single hem straight and curved edges form double hemming.(15 hrs.) 21. Make cylindrical objects with joints. (10 hrs.) 22. Make simple Square table tray with folding edge and fix handle with riveting. (17 hrs.) 23. Make simple triangular tray with folding edge and fix handle with riveting. (08 hrs.)</p>	<p>Safety precautions to be observed in a sheet metal workshop, sheet and sizes, Shearing machine-description, parts and uses. (07 hrs) Marking and measuring tools, wing compass, Prick punch, square tools, snips, types and uses. hammers and mallets type-sheet metal tools, Soldering iron, Trammel, Stakes (07 hrs) Marking and measuring tools, wing compass, Prick punch, square tools, snips, types and uses. hammers and mallets type-sheet metal tools, Soldering iron, Trammel, Stakes (07 hrs)</p>
<p>Professional Skill 50 Hrs; Professional Knowledge 14 Hrs</p>	<p>Apply Knowledge of various pipe fittings.</p>	<p>24. Identify & check different types of pipe. (05 hrs.) 25. Do pipe cutting & threading (10 hrs.) 26. Apply different types of pipe joint/ fitting of different materials & different diameter (Use PVC pipe). (10 hrs.) 27. Make joint/ fitting for rain water (Use PVC pipe) (10 hrs.) 28. Make joint/ fitting for water pipe line (Use GI pipe) (10 hrs.) 29. Make joint/ fitting for water pipe line (Use PVC pipe) (05 hrs.)</p>	<p>Plumber: Instruction to the trade safety precautions and elementary first aid. Plumber hand tools description on rain water & pipe system including installation of water supply fitting. Description of different types of pipes & their use such as galvanized pipes, PVC pipes. Pipe line leakage & Maintenance. (14 hrs)</p>

Professional Skill 100 Hrs; Professional Knowledge 28 Hrs	Work on Operating System, Practice on DTP, Corel Draw, Photo shop etc.	30. Operate & familiarise with computer operating system. (05 hrs.) 31. Operate paint software & draw freehand sketch & use like as colour bucket, eraser, pencil & all tools. (05 hrs.) 32. Draw scenery like realistic in paint software (05 hrs.) 33. Photoshop: tool handling in photo shop familiarise with all hand. (10 hrs.) 34. Make a deferent layer & create background, artistic text, design, images, (05 hrs.) 35. Import photo image from file & scanner, edit photo image. (05 hrs.) 36. Edit Image adjustment effects. & layer style effects. (05 hrs.) 37. Edit special effect on different layer, colours, textures, filter effects. (05 hrs.) 38. Edit & Save image in PSD, JPEG & other format. (05 hrs.)	Standard pipe threads, nominal diameter, wall thickness, schedule number, die & diestock, tubing. (14 hrs)
		39. Create a colour advertise design for festival offer. (15 hrs.) 40. Export Design, image, photograph from Photoshop to other different format for different software's. & make a print & print file for different printers. (10 hrs.)	Drawing instruments- Drawing board; T- square; steel and wooden scale; set square; compass; Colour dish. (07 hrs)

		<p>Corel Draw :</p> <p>41. Apply select /move /copy /objects, retire skew, size Objects. (03 hrs.)</p> <p>42. Apply Combine, Shape, weld, trim, Align, Group / Ungroup objects.(03hrs.)</p> <p>43. Add text & Format text create different heading & Sub-heading (04hrs.)</p> <p>44. Draw dimensionally objects, Creating special effects for backgrounds & related objects. (05 hrs.)</p> <p>45. Do graphical effects to text. Creating symbols, logo, special effects. (05 hrs.)</p> <p>46. Make a flex design for marketing offers. Convert & Save to CD/DVD/PD for final printing. (05 hrs.)</p>	<p>Drawing simple geometric objects using Corel Draw Transforming objects, Organizing objects, Working with text, Dimensioning objects Creating special effects (07 hrs)</p>
<p>Professional Skill 25 Hrs; Professional Knowledge 07 Hrs</p>	<p>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.</p>	<p>47. Create ornamental designs for stencils, cut it & make a print. (10 hrs.)</p> <p>48. Draw simple sentence in different lettering, stencil cutting & stencilling. (15 hrs.)</p>	<p>Stencil -Definition and types of stencils. Uses; Care and cleaning of different types of stencils. Instruments and equipment for stencil. (07 hrs)</p>
<p>Professional Skill 50 Hrs; Professional Knowledge</p>	<p>Produce Sign board, Name plate. prepare back ground painting, Observe finishing, lettering proportion &</p>	<p>49. Make sign board with background painting. (10 hrs.)</p> <p>50. Make Figure Enlargement for sign board. (10 hrs.)</p> <p>51. Draw and painting letters & design or logo on Sign Board.</p>	<p>Advertisement-Sign Board, Banner, Posters, Hoardings, Wall painting, Name plate, Logo, Symbol, Monogram, Digital Flex Board. Graph Making</p>

14 Hrs	evenness	(20 hrs.) 52. Paint a name plate on deferent material (wood/ tin/ acrylic). (10 hrs.)	&Enlargement, Need of graph for Enlargement (14 hrs)
Professional Skill 50 Hrs; Professional Knowledge 14 Hrs	Prepare wooden surface using various techniques, decorate & make a attractive wooden articles.	64. Clean, sanding, knotting, stooping, staining preparation wooden surface properly for polish. (04hrs.) 65. Make & apply putty for varnishing & polishing. (05 hrs.) 66. Apply polish on prepared wooden surface with cotton rags. (05 hrs.) 67. Clean, sanding, knotting, stooping, staining preparation wooden surface properly for varnish. (05 hrs.) 68. Apply varnish on prepared wooden surface with brush. (05 hrs.) 69. Prepare wooden article & apply varnish with spray. (08 hrs.) 70. Prepare wooden article & apply melamine or PU wooden finish with spray. (08 hrs.) 71. Make a wooden top with thick layer of melamine polish. (10hrs.)	Polish paper-Types and uses. Putty - Definition, their material types and uses. Method of mixing & its different system of application. Varnish - Definition; types and characteristics of varnish. Process of makingof varnish its importance and contains. Polish- Types and uses. Different application methods (14 hrs)

<p>Professional Skill 50 Hrs; Professional Knowledge 14 Hrs</p>	<p>Prepare different types of wooden surface & paint it like Plywood, MDF & low quality wood.</p>	<p>72. Prepare wooden surface properly for painting. (02 hrs.) 73. Apply wood primer by brush. (03 hrs.) 74. Make a putty for wood finishing. (02 hrs.) 75. Apply putty & prepare wooden surface properly. (03 hrs.) 76. Do paint wooden surface properly with brush (05 hrs.) 77. Prepare & spray painting on different furniture taking all precautions. (10 hrs.)</p>	<p>Paint- Definition; classification and use. Pigment, Binders, Solvent, oil, dryers; additives. Painting- Definition and importance of painting. Method of wooden surface painting. (14 hrs)</p>
<p>Professional Skill 175 Hrs; Professional Knowledge 49 Hrs</p>	<p>Develop Building painting using different decorative process.</p>	<p>78. Prepare ceiling surface for lime wash. (03 hrs.) 79. Prepare wall surface for lime wash. (02 hrs.) 80. Apply POP on wall for lime painting. (02 hrs.) 81. Make & mixing of lime & stainer. (02 hrs.) 82. Apply Lime on ceiling & wall with brush properly. (03 hrs.) 83. Prepare ceiling & wall for distemper painting. (03 hrs.) 84. Make wall putty for distemping. (02 hrs.) 85. Apply wall putty with finish & prepare wall surface. (04 hrs.) 86. Mixing & apply a distemper properly for wall. (04 hrs.) 87. Prepare ceiling & wall surface with putty & Apply interior emulsion paint. Use roller & brush. (25 hrs.) 88. Prepare office & work shop interior wall surface with</p>	<p>Types, uses of building (wall) paints. Wall primer- Water base / Oil base, types of putty for wall. Mixing, Preparation process of Lime and Distemper. Other required Equipments- Below lamp, bucket, plum-bob, putty blender, Paint strainer. Types of Trestle, ladder, scaffolding (07 hrs) Colour selection for interior wall painting and use of Paints. Effects; Intention; Purpose of colours. Paint mixing and preparation process.</p>

		putty, Apply enamel or luster paint. (25 hrs.)	Difference between emulsion paint and Oil paint. (14 hrs)
		79. Make scaffolding for exterior wall painting. (05hrs.) 80. Clean exterior wall area with cleaning process & water pressure process (05 hrs.) 81. Prepare exterior wall with white cement for painting. (08 hrs.) 82. Paint the prepared wall by brush with cement paint. (08 hrs.) 83. Prepare exterior wall with exterior priming for painting. (10 hrs.) 84. Paint the prepared wall by brush with emulsion paint. (10 hrs.) 85. Decorate the projection with dark shade apply special shades of emulsion colour. (04 hrs.)	Color selection for exterior wall painting and use of Paints. Method of paint mixing and preparation. Paint used for exterior wall painting. (14 hrs)
		86. Decorate the wall with design roller/ stamp/ stencil. (13 hrs.) 87. Prepare wall & create texture, use different medium, colour & make a different textures. (12 hrs.)	Difference between brush painting and Roller painting. Types of Roller and preparation of texture for wall painting. (07 hrs)
		88. Prepare wall & design wall paper pasting on wall (10 hrs.) 89. Find the defect on wall before painting and remove it. (08 hrs.) 90. Find the defect on wall after painting and remove it. (07 hrs.)	Wall defects and defects removal process of wall painting. (07 hrs)

Professional Skill 50 Hrs; Professional Knowledge 14 Hrs	Paint and decorate exterior articles	91. Prepare & paint by brush windows, grill, doors, safety doors, gate etc. (25 hrs.)	Building Painting estimate & costing. (07 hrs)
		92. Paint a ceiling and wall with dip-feed roller / pad or airless spray. (25 hrs.)	-Do- (07 hrs)
Professional Skill 25 Hrs; Professional Knowledge 07 Hrs	Process on pipes & pipe line painting for hospitals & commercial buildings with colourcode.	93. Paint the GI pipe, take all precautions while painting. (08 hrs.) 94. Paint the sanitary pipe, take all precautions while painting. (08 hrs.) 95. Paint the MS square & round pipe, take all precautions while painting. (09 hrs.)	Intention and effects of pipe line painting, Colour Codes of pipe line painting. ISI colour code. (07 hrs)
Professional Skill 50 Hrs; Professional Knowledge 14 Hrs	Use plaster of Paris. (P.O.P.) Create Textures on wall surface. Process for Interior work in commercial places. Use of Texture material for relief work. Offices and corporate spaces for modern painting work.	96. Prepare Wall surface for POP work Use damping material. (08 hrs.) 97. Create equal level for filling POP. (04 hrs.) 98. Fill POP & make a equal level the selected area. (08 hrs.) 99. Create a suitable border by Pop work. (05 hrs.) 100. Make a Simple 3D shapes of flowers, leaves, ornamental by POP. (12 hrs.) 101. Compose the 3D parts, different texture material and assemble in frame & make a finished 3D wall poster. (08 hrs.) 102. Use suitable colours & paint the 3D poster by spray. (05 hrs.)	Description of various filling materials Its field of application Safety in spray methods. Occupational safety hazards and its precaution. Like furniture paint, epoxy paint metallic paint for decoration work selection of paints for different surface. Using mix material for - 3-D design. Working condition & modern decoration (14 hrs)
Professional Skill 50 Hrs; Professional	Estimate & Plan for Home renovation with computer aided designing, 2-	103. Make an estimate Different material use in different civil work With Drawing a lay out. (08 hrs.)	Information about wide range of working conditions in floor plans & home renovation. Exterior

<p>Knowledge 14 Hrs</p>	<p>D-/3-D design. Texture and light effects for school Building. Use of mural and landscapes in interior work.</p>	<p>104. Draw & create textures effects On different presentation material.(08 hrs.) 105. Make a 3D Models of simple geometrical shapes. (04 hrs.) 106. Make a 3D Models of simple ornamental shapes & compose it. (05 hrs.)</p>	<p>painting with texture paint. Importance of safe and esthetically pleasing space for building uses. General ideas of relief painting in P.O.P. work. (14 hrs)</p>
<p>Professional Skill 50 Hrs; Professional Knowledge 14 Hrs</p>	<p>Develop a craft work knowledge about radium & vinyl cutting manually as well as plotter, pasting, etc.</p>	<p>107. Make a manually ornamental design on radium or vinyl (05 hrs.) 108. Make a symbol or image design by computer in graphics & cut it with plotter (10 hrs.) 109. Do "Instruction board" on acrylic sheet with help of multi layer radium or vinyl. (15 hrs.) 110. 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 (10hrs.) 111. Create a design for wall decoration by computer in graphics & cut it on multi colour vinyl, paste on wall (10 hrs.)</p>	<p>Their use & care. different medium paper for plotter cutting. Manual cutting Instruments & their safety/ care/ precautions, Proper pasting procedure, pasting techniques, care & precaution. (14 hrs)</p>
<p>Professional Skill 75 Hrs; Professional Knowledge 21 Hrs</p>	<p>Produce productive work of screen printing.</p>	<p>112. Make a wooden frame with bolting cloth. (10 hrs.) 113. Create Art work on tracing for screen exposing. (10 hrs.) 114. Coating solution & expose screen with ready art work, Develop exposed screen with</p>	<p>Screen Printing - Types, definition and explanation. Origin and development of screen painting. Selection of cloth, instruments, chemicals, cloth fitting, exposing. (14 hrs)</p>

		<p>cold water, touch up pin holes and nonprinting area, taping around inside. (15 hrs.)</p> <p>115. 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. (15 hrs.)</p>	
		<p>116. Prepare & registration Pining work on printing table. (05 hrs.)</p> <p>117. Testing of registration with Squeezing ink. (02 hrs.)</p> <p>118. Do single colour printing on selected cards/sheets. (05hrs.)</p> <p>119. Do multi colour printing on selected cards/sheets. (10hrs.)</p> <p>120. Decoating used screen with bleach powder or decoating solution, wash & clean. (03 hrs.)</p>	<p>Screen developing; printing and de-exposing /washing. Types of ink (07 hrs)</p>
<p>Project Work/ Industrial visit</p> <p>Broad areas:</p> <ul style="list-style-type: none"> a) Make a Radium or vinyl cutting designs and pesting them on walls. b) Decorate wall with different texture. 			

SYLLABUS FOR CORE SKILLS
1. Workshop Calculation & Science(Common for one year course) (80Hrs + 80 Hrs)
2. Engineering Drawing (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			
Domestic Painter (For batch of 24 Candidates)			
S No.	Name of the Tools and Equipment	Specification	Quantity
A. TRAINEES TOOL KIT			
1.	Screw driver set	150,200,250mm	24Nos. each
2.	Measuring tape-	10 meters	24Nos.
3.	Flat brush-	4", 3", 2" and 1"	24Nos. each
4.	Lettering brush-	2,4,6,8,10 no.	24Nos. each
5.	Wooden rule	24"	24Nos.
6.	Glass pencil (any colour)		24Nos.
7.	Lead pencil	HB, 2b, 4b, charcoal	24Nos. each
8.	Putty knife-	2", 4"	24Nos. each
9.	Mask		24Nos.
10.	Apron		24Nos.
B. SHOP TOOLS, INSTRUMENTS			
Lists of Tools and Equipments:			
11.	Blow lamp	1/2ltr/1 Ltr	1 Nos. each
12.	Steel wire brush	50 mmX150 mm	10 Nos.
13.	Scriber		4 Nos.
14.	Putty Knives	2",4",6"	24Nos. each
15.	Marking Gauge		4 Nos.
16.	Plier insulated	150mm	4 Nos.
17.	Nose Plier insulated	150mm	4 Nos.
18.	Screw drivers	150mm	4 Nos.
19.	Electrician testing Pencil (Line/Neon tester)		4 Nos.
20.	Rule Steel	300mm	12 Nos.
21.	Punch Centre	150mm X 9mm	4 Nos.
22.	Heavy duty screw driver	200mm	4 Nos.
23.	Hammer Ball Peen	0.50Kg with handle	4 Nos.
24.	Hammer Cross Peen	100gms. With handle	4 Nos.
25.	Pliers Side Cutting insulated	150mm	4 Nos.
26.	Pincers	150mm	4 Nos.
27.	Single straight ladder	8" wooden	1 No.
28.	Step ladder-	12' aluminium	1 No.
29.	Extension ladder		1 No.
30.	Scrapping knife		12 Nos.
31.	Chisel knife		12 Nos.
32.	Pallet knife		4 Nos.

33.	Chisels		4 Nos.
34.	Face mask		24 Nos.
35.	Hand gloves-solvent		24 Nos.
36.	Safety goggles		6 pairs
37.	Airless pumps (Wagner with complete accessories)		1 No.
38.	Spanner set	6 to 32mm set DE	1 No.
39.	Adjustable spanner	300 mm	2 Nos.
40.	Bench vice	120mm, 150mm each one	2 Nos. each
41.	Spray gun (painting)		2 Nos.
42.	Air filter		2 Nos.
43.	Air hoses pipe	20 meter	1 No.
44.	Regulators for paints		1 No.
45.	Paint filter-conical		24 Nos.
46.	Fume filter mask		24Nos.
47.	Out side spring caliper	150 mm	4 Nos.
48.	Inside spring caliper	150 mm	4 Nos.
49.	Divider spring	150 mm	4 Nos.
50.	Centre punch	100 mm	4 Nos.
51.	File flat 2 nd cut	250 mm	4 Nos.
52.	Ordinary wooden mallet	50 mm	4 Nos.
53.	Cross pen hammer	0.25kg with handle	4 Nos.
54.	Snip straight	250 mm	4 Nos.
55.	Right cut snip	250 mm	4Nos.
56.	Steel wire brush		4 Nos.
57.	Marking gauge		4 Nos.
58.	Tennon saw	300 mm to 375 mm	2 Nos.
59.	Jack plane metal		2Nos.
60.	Smoothing plane wooden		2 Nos.
61.	Carpenter hammer with wooden handle		2 Nos.
62.	Chisel farmer	6 mm to 25 mm set	2 Nos.
63.	Chisel mortise	9 mm	2 Nos.
64.	Trying plane		2 Nos.
65.	Paint mixing rack		1 No.
66.	Colour chart's		12 Nos.
67.	Air brush(air master make complete accessories)		1 No.
68.	Hair drier heavy duty		2Nos.
69.	File flat smooth		4 Nos.
70.	"C" clamp	2"	4 Nos.
71.	Squeeze-	2",4",6",8" with aluminum handle	2 Nos. each
72.	Palette knife		4 Nos.

73.	Viscosity cup no. 4 with stand		1 No.
74.	Air compressor with complete accessories		1 No.
75.	Spray equipments and its accessories		1 No.
76.	Pot gun		2 Nos.
77.	Baking oven		1 No.
D. Shop Floor Furniture and Materials			
78.	Stool		24 Nos.
79.	Desk with Locker		24 Nos.
80.	Metal Shelving Rack Open Type	1800 x 900 x 500 mm with 4 Adjustable Shelves	2 Nos.
81.	Steel Locker's with 8 Drawer's	One locker for each trainee	3 Nos.
82.	Green Glass Board	6'X4'	1 No.
83.	Cupboard		4 Nos.
84.	Instructor table and		1No.
85.	Instructor chair		2Nos.
E. DESIGNING LAB			
86.	Computer's with Accessories (Table & Chair)	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.	5 set
87.	Anti Virus (Latest Version)		5 Nos.
88.	Scanner High Resolution		1 No.
89.	Printer Lager/colour		1 No.
90.	Software CorelDraw / Page Maker/ Photo Shop / Shree Lippi / ISM / Acee - Dcee Viewer (Latest Version)		1 Each (Multi user)
91.	UPS		As required
92.	Camera Digital	Higher mega-pixel with Tri-Pod	1 No.
93.	Radium Plotter and cutter with stand	complete accessories 48"	1 No.
Note:			
1. <i>Internet facility is desired to be provided in the class room.</i>			

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.

Special acknowledgement is extended by DGT to the following expert members who had contributed immensely in this curriculum.

List of Expert members participated for finalizing the course curricula of Domestic Painter at ITI, Ambernath, Maharashtra and ITC, Vadodara, Gujarat.			
S 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.	VidyadharTakle, Asst. Manager- Engg. Service	Godrej Industries Ltd., Ambernath	Member
13.	RoshanVagade, QC- Engineer	Indore Composite Pvt. Ltd. Mumbai	Member
14.	Sandip D. Pisal, Asso. Chief Manager- Painter	Godrej & Boyce Manufacturing Co. Ltd, Mumbai	Member
15.	RajendraAgashe, 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.	UdayrajRansing, Dy. Manager Engg.	-do-	Member

19.	SatyandraPatra, Manager	Du Pont, Vadodara	Member
20.	Varun Bhai, Manager	-do-	Member
21.	Nitesh Chakraborty, Manager	-do-	Member
22.	Chirag Mistry, Sr. Manager	GromaxAgri 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, Maharashtra	Member
29.	V.V. Ranalkar, Craft Instructor	ITI (G.) Nashik, Maharashtra	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
CP	Cerebral Palsy
MD	Multiple Disabilities
LV	Low Vision
HH	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

