SYLLABUS

For the trade of

DESK TOP PUBLISHING OPERATOR

(semester Pattern)

(For Visually Impaired and other Disabled)

Under

CRAFTSMAN TRAINING SCHEME (CTS)

Designed in 2013

Government of India Ministry of Labour & Employment Directorate General of Employment & Training CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE BLOCK EN –81, SECTOR – V, SALT LAKE CITY KOLKATA – 700 091 List of the members attended the Trade Committee Meeting for designing Syllabus for the trade of **"Desk Top Publishing Operator" (DTPO)** under craftsman Training Scheme (CTS) (for Visually Impaired and other Disabled) held on 11th March'2013 at Blind People's Association, Vastrapur, Ahmedabad, Gujarat.

Sl. No.	Name & Designation, S/ Shri/Smt.	Organisation	Remarks
1	Mr. S. A. Pandav, Joint Director (Training)	Directorate Employment & Training, Gandhinagar	Chairman
2	Mr. L. K. Mukherjee, Dy. Director of Training	Central Staff Training & Research Institute, Kolkata	Member
3	Mr. Nirmalya Nath, Asst .Director of Training	Central Staff Training & Research Institute, Kolkata	Member
4	Dr. Bhushan Punani, Executive Director	Blind People Association, Ahmedabad	Member
5	Mr. G. N. Parekh, RDD (Training)	Directorate Employment & Training, Gandhinagar	Member
6	Mr. K. K. Bhatt, Deputy Director	Vocational Rehabilitation Centre, Ahmedabad	Member
7	Mr. P. B. Vyas, Principal	I.T.I. Kubernagar	Member
8	Ushma Anerao, In charge Principal	Government Girl's Polytechnic, Ahmedabad	Member
9	Tejal Lakhia, Hon. Superintendent	I.T.C; Blind People Association, Ahmedabad	Member
10	Mr. Ketan Shah, Vice President	All Gujarat Council for the deaf, Ahmedabad	Member
11	Chandaben Chauhan, Principal	I.T.I. Vijapur	Member
12	Yatin Trivedi, S.I COPA	I.T.I.(Women) Thaltej, Ahmedabad	Member
13	Vinu Chawla, Consultant	Directorate Employment & Training, Gandhinagar	Member
14	Mr. Sipai Zakir, Data Entry Operator	Multi category Training Centre For The Handicap	Member
15	Hareshchandra P. Dave, Instructor	Training Centre for the Adult Deaf, Ahmedabad	Member
16	Jay Shah, System Analyst	Tata Consultancy Service Ltd.	Member
17	Anisha Y. Dodiya, I.T. Lecturer	Govt. Polytechnic for Girls, Ahmedabad	Member
18	Vidhi A. Shah, I.T. Lecturer	Govt. Polytechnic for Girls, Ahmedabad	Member
19	Kruti k. Shah, I.T. Lecturer	Govt. Polytechnic for Girls, Ahmedabad	Member
20	Pratibha R. Sharma, Computer Engineer Lecturer	Govt. Polytechnic for Girls, Ahmedabad	Member
21	Kritika Shrivastava, Lecturer	Govt. Polytechnic for Girls, Ahmedabad	Member
22	Pooja J. Varaiya, Computer Lecturer	Govt. Polytechnic for Girls, Ahmedabad	Member
23	Jalashree D. Trivedi, Lecturer	Govt. Polytechnic for Girls, Ahmedabad	Member
24	Nirali R. Sheth, Computer Engineer Lecturer	Govt. Polytechnic for Girls, Ahmedabad	Member
25	Nainesh J Purohit, I.T. Professional	Lifecare Hospital Pvt. Ltd, Ahmedabad	Member

Shri R.N.Bandyopadhyaya, Director, CSTARI, Kolkata.

List of members attended the Trade Committee Meeting for Restructuring of Syllabus under CTS (specially for Visually Impaired and other Disabled) on **01 October 2013** at **Blind People's Association, Vastrapur, Ahmedabad, (Gujrat)**

SL. NO.	NAME & DESIGNATION S/SHRI	REPRESENTING ORGANIZATION	REMARKS
1.	S. A. Pandav, Joint Director	CET, Gandhinagar, Gujarat	Chairman
2.	L.K Mukherjee, Dy Director	CSTARI Kolkatta	Member
3.	Dr. Bhushan Punani, Executive Director	Blind People's Association, Ahmedabad	Member
4.	Harish Panchal, Director (Trg.)	Blind People's Association, Ahmedabad	Member
5.	Nandini Rawal, Director (Project)	Blind People's Association, Ahmedabad	Member
6.	Tejal S. Lakhia, Hon. Superintendent	Blind People's Association, Ahmedabad	Member
7.	Mr. Ranchhod Soni	Higher Secondary School for The Blind Vastrapur, Ahmedabad	Member
8.	Mr. Mihir Das	JBS Academy, Ahmedabad	Member
9.	Mrudangi Trivedi	ABS Academy Pvt. Ltd., Ahmedabad	Member
10.	Jagruti V. Chaudhary	Blind People's Association, Ahmedabad	Member
11.	Hetal S. Ram Raliya	Blind People's Association, Ahmedabad	Member
12.	Dhingani Nalin H	Technical Institute, Ahmedabad	Member
13.	Kalyanee D. Dani	I.T.I., Ahmedabad	Member
14.	Hemal D. Punlit	I.T.I. Women, Thaltej, Ahmedabad	Member
15.	Vina Chawla	Emp. And Training H.O. Gandhinagar	Member
16.	Chanda Chawhan	I.T.I. Vijapur, DistMeshana	Member
17.	Trivedi Jatin	Mahila ITI, Theltej	Member
18.	Smt. Harsha J. Shet	Mahila ITI, Theltej	Member
19.	Hansh G. Dave	Jasmine Beauty Care, Ahmedabad	Member
20.	Sipai Jakir J.	Blind People's Association, Ahmedabad	Member
21.	Jagdish jenabhai Parnar, Craft Instructor	Blind People's Association, Ahmedabad	Member
22.	Beenal Bharat Kumar Modi, Instructor	Blind People's Association, Ahmedabad	Member
23.	Vasant Kamdar, VI	ITI, Palana	Member
24.	Satish S. Charan, Asst. App. Advisor	CET, Gandhinagar, Gujarat	Member

GENERAL INFORMATION

1.	Name of The Trade	e : Desk Top Publishing Operator (DT) (for visually impaired and other dis	
2.	N.C.O Code No		:
3.	Duration of Craftsman Training		: One Year (Two Semester)
4.	Entry Qualification		:
	 Passed class X examination of 10 + 2 pattern or an equivalent examination. Candidate should be of low Vision/Orthopedically Disabled/Hearing impaired /other Disabled 		1 1
5.	Unit Strength	: 10 Trainees	
6.	Space Norms	: 3.5 sq. m. per tra	inee
7.	Power Norms	: 4.3 K.w	
8.	Qualification for Ins	tructor :	

Degree in Printing Technology with one year experience. OR Diploma in Printing technology with 2 years experience OR National Trade Certificate or National Apprenticeship Certificate in Desk Top Publishing Operator (NCVT) with 3 years experience,

Desirable: -- Passed Principal of Teaching (POT) course from any of DGE&T Institute

Note:- At least one Instructor must have Degree / Diploma in relevant trade.

Note: It will be responsibility of the Training Centre to impart training in plus curriculum (like Braille, Orientation & Mobility, Activities of Daily Living), total communication, use of assistive devices, adaptations for barrier free environment and technology.

Visually Impaired and other such Disabilities requiring support should be provided Writer (one standard below Trade Entry Level) during examination and given 30 Minutes more than the prescribed time.

SYLLABUS FOR THE TRADE OF DESK TOP PUBLISHING OPERATOR (FOR VISUALLY IMPAIRED AND OTHER DISABLED) UNDER CRAFTSMAN TRAINING SCHEME

DURATION: Six months

First Semester Semester Code: DTP: SEM I

Week	TRADE PRACTICAL	TRADE THEORY
No.		
1-2	 Fundamentals: * Introduction of personal computer & its applications. * Keyboard practice with emphasis on accuracy and speed. * Practice to store & retrieve Information's through storage media. * Use of System & Application Software. 	 Fundamental & Basics Of Computer Fundamentals: Evaluation of computers * Introduction to computer, Hardware & Software * Computer application * Input Device: Keyboard, Mouse, OCR, OMR, MICR, Digitizer, scanner etc * Storage Media- Magnetic Disk, Hard Disk, Floppy Disk, CD, etc. * Output Devices: Hard copy devices & Soft copy devices. Types of software * System & Application Software. Concepts: Bits, Bytes, RAM, ROM, ASCII etc
3-4	 Operating Systems: DOS: * Introduction & version * Learning & Practice of Disk Operating System (DOS) * Familiarization with various commands & tools. MS WINDOWS: * MS Windows and its use * File management, folder, maintenance wizard, setting through control panel. * Using essential accessories and removal * Installation of various of various software. 	 Operating Systems DOS : * Introduction & version * Feminization with various commands tools MS Windows : * Introduction & version * Desk Top & its terminology * Setup using Control Panel * Windows Accessories * File management Folder Concept
5	Internet: Use of Internet accessing/ browsing Emailing Downloading Various services offered by internet 	Networking Concept: * LAN, MAN, WAN * File & Printer Sharing * Introduction & Use of Internet and Intranet.
6	Industrial visit on awareness	Printing Processes : * History of printing * Introduction

 * Types of printing * Comparative Analysis of various printing process. DOCUMENT SETUP Conceptualization of
DOCUMENT SETUP Conceptualization of
· ·
Document Desk Top Publishing: * Introduction, terminology. * Merit and demerit * Comparative analysis between DTP and traditional composing processes. * Costing estimating of DTP Unit * Word Processing through MS Word.
 Typography Types(Fonts), Type sizes, Different families Point system and other system of measuring Casting off, typography, proof reading, familiarization with symbols/proof reading marks used in marking copy, typescript for press Determining line measure and depth and margins, House of style Page composition through Page Maker

	creating running header and footers importing text, threading text blocks, balancing columns, edit story. Customizing the dictionary, hyphenation, leading frames layers, locking, objects wrapping text around graphics cropping a graphic using libraries assembling publication into a book, indexing a publication , creating table of contents , applying color, edit color creating custom color, color libraries table editor, importing, linking and exporting a graphic. OLE (object linking and embedding).TIFF image. PDF HTML formats printing of publication proof corrections with appropriate proof reading marks.	
17-24	 (c) Quark Express: * Specifying Document setting * Creating and opening publications, use of palates & Control * Typing & text manipulations * Positioning Resizing. Scaling and stacking typing text. Formatting graphics. Creating columns. Creating style. Changing type style and alignment. Rotating and moving of text block and graphics. Placing text file. Setting tab. indents. Leaders. Copying graphic between publications. Viewing page in appropriate format. * Master pages. Master items & spreads * Tables manipulations * Box and line manipulations. * Drawing merging & reshaping items. * Web document Feature. * Setting up pages, changing document setup. Choosing a measurement system. Adjusting layout. Numbering pages. Rearranging pages, Continued lines & linked text chains importing text. Creating columns. Editing, customizing the dictionary, 	 Composing Process: * Introduction of various methods of composing. * Different composing processes and their development Suitability for job merits and demerits. * Brief description of different composing machines. * Output device :- Inkjet printer, laser printer, Image setters, computer to plate, computer to printing machine Light sensitive materials used in output device Film /Bromide types of all used image setter * Page composing through Quark Express *
	 hyphenation, leading Long documents. Drop caps. Special Characters, Spell Check. Anchoring items to flow with text * Grouping & locking object. Wrapping text around graphics. Using libraries. Indexing a publication creating table of contents applying color. Edit colors 	

	*	creating custom color libraries. Halftone separating & Trapping. importing linking and exposing a graphic and document. OLE (object linking and embedding). EPS. PDI. HTML. Formats. For outputs. Printing of publication proof corrections with appropriate proof reading marks. Use of In Design Software	
25		Project Work / Industr	rial Visit(Optional)
26		Examina	ation

SYLLABUS FOR THE TRADE OF DESK TOP PUBLISHING OPERATOR (FOR VISUALLY IMPAIRED AND OTHER DISABLED) UNDER CRAFTSMAN TRAINING SCHEME

DURATION: Six months

Second Semester
Semester Code: DTP: SEM II

Use of scanner for picking up illustration line drawings she has etc. Setting of Scanner Selection paper line screen per inch. Selection of highlights. Middle tone and shadow are. Contrast Reading of color strip and do color	DOCUMENT DESIGNING & ADVANCE FEATURES Graphic reproduction * Tonal value. Tonal gradation. * Continuous tone. Half tone, Moire pattern, * Highlight, Middle Tone, Shadow
correction Making of OCR.	areas contrast & details Scanning * Principle of scanning * Types of scanners (Flatbed & Drum) and its use * Resolutions, DPI.LPI * Graphic drawings inputs of pictures sketches Photo editing Software. * Preparation of OCR.
 (A) Adobe Photoshop * Image Fundamentals: - Digital image pixel. Resolution. DPL, raster irrage/bitmaps. Vector image/graphics. * Various File Format:- Bitmap, jpeg, PSD., PDD,. TIFF,GIF. * Understanding Various Tools:- Marquee- Rectangular/Elliptical. Move Lasso, Polygonal Lasso Magnetic Lasso, Magic wand. Crop Air brush, Paint brush, Pencil, Rubber Stamp, Pattern stamp, Erase, Paint bucket, Direct selection, Path component selection , Pen custom shape, eye dropper, Hand Zoom. * Understanding various Palettes:- Navigator, info, Color, Path component selection 	—Do—
*	 image/graphics. Various File Format:- Bitmap, jpeg, PSD., PDD,. TIFF,GIF. Understanding Various Tools:- Marquee- Rectangular/Elliptical. Move Lasso, Polygonal Lasso Magnetic Lasso, Magic wand. Crop Air brush, Paint brush, Pencil, Rubber Stamp, Pattern stamp, Erase, Paint bucket, Direct selection, Path component selection , Pen custom shape, eye dropper, Hand Zoom. Understanding various Palettes:-

	Foreground Colors. Background	I I
	colors. Default colors.	+
	* Switch colors	
	* Details about Status Bar.	
	Option Bar.	
	* Edit Image in Standard mode.	
	Quick Mask Mode.	
	* Various Image Display	
	Options:- Standard Screen	
	mode. Full Screen Mode with	
	Menu Bar, Full Screen mode.	
	 * Various Edit Commands:- 	
	Various Euli Commanus	
	Transform Preferences, Define	
	Brush etc.	
	various image commanus	
	Inverse. Adjust, Extract, Liquefy	
	etc.	
	WOULE RGD /CTWIN/LAD	
	/Grayscale. Adjust Brightness/	
	Contrast. Hue/ Saturations,	
	desaurate, Replace Colours,	
	invert, Variations, Canvas size,	
	Rotate canvas, crop, Trim-	
	Various Layer Commands.	
	Rearranging Layers, Lock	
	Layers, Merge down, Merge.	
	 * Visible, Flatten Image. Working 	
	with layers set.	
	 * Various Select commands 	
	 * Various Filter Effects, Render 	
	3D Transform, Lens Flare.	
	Lightning Effects. Motion Blur.	
	Radial Blur	
	* Various View Commands.	
	* Print Option.	
	Industrial visit of graphics design	
	studios / Add agency / News Paper /	
	Prepress Bureau and Printing Press	
7-10	(B) Corel Draw: -	Graphic design:
	 * introduction: - Creating. Opening 	* Principle of page design
	drawing. Setting up the drawing	* Elements of design
	page. Using the rulers. Grid. And	* Color-Define color, type of
	guidelines. Viewing document.	colors, impact of colors, color
	* Drawing and Shaping Objects:-	wheel, achieving of different
	Drawing. Moving & Shaping Object,	colors through appropriate color
	drawing lines and curves,	percentage. Selection of types
	dimensions line.	(Fonts) for text/Display work.
	* Working with Style & Templates.	(
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	Organizing Objects:-Arranging &	* Droporation of Graphics
	Changing the order of objects.* Grouping, Ungrouping locking and	* Preparation of Graphics* Creation of rough sketches.
	unlocking objects.	* Color Selections
	 Using and setting layers 	* Font & Image selection.
	* Aligning & editing objects data.	* Graphic design using Corel
	Working with pattern and texture	draw.
	fills. Applying and editing line ending	
	shapes, splitting and erasing	
	portions of objects positioning	
	moving stretching and rotating	
	objects.	
	* Working with multiple on screen	
	color palettes	
	* Adding graphics symbols and	
	specials characters. Editing.	
	* Formatting text and paragraph.	
	Hyphenating text. Linking paragraph text frames, using spell checker and	
	grammar, using thesaurus.	
	 * Creating and editing blends. 	
	Envelopes	
	* Creating and modifying vector and	
	bitmap.	
	* Extrusions. Creating drop	
	shadows. Creating and editing	
	transparencies, contoured.	
	* Objects, Working with linked	
	bitmap, cropping, coloring and	
	converting bitmaps.	
	* Applying special effects to bitmaps	
	by 3D	
	* effects, blur effects, contour effects	
	 Creating documents for various 	
	formats, using layout. Previewing	
	sizing and positioning a print job.	
	* Creating color separations, working	
	with halftone and bitmap screens	
	importing and exporting mes. OLE	
	(Object linking and embedding).	
11 15	Finiting of Document/Design.	Paga maka un
11-15	(c) Adobe in Design:* Introductions Creating opening Saving	Page make-up * Principles of page make of
	closing publications	 Principles of page make of Books.
	* Setting up the page	* Board Room/Seminar
	* Using the rulers, grid. And guidelines,	Presentation material
	viewing document	preparations.
	* Drawing & Shaping, Arranging	

16-17	 Objects, Grouping / Ungrouping Locking Unlocking * Layering * Editing formatting Text, formatting Paragraph, linking * Arranging Drawing Editing Objects, shaping, Rotating, stretching. Positioning * Modifying various Images, Vector Bitmap Images, working with Link Bitmap Image, Converting Bitmaps, Applying special effects. * Importing and exporting Files, Object Linking & Embedding. Creating documents for various formats * Creating colors * Working with halftone images, Resizing. Positioning of image Color corrections, RGB mode. CYMK mode. Converting various formats. * Printing document/design. Printer:- * Installation of New Printer by printer setup. * Use of Inkjet/DeskJet/Laser Printer for taking out copies * Color calibration of printer with monitor. 	 * Copy preparation and copy fitting procedures. * Imposition schemes. Paper * Introduction and preparation * Various paper sizes (Conventional and metric) and their uses. * Various paper calculations. * Page making through Adobe In Design FILE & PRINT MANAGEMENT Printing: * Various Types of Printers and their uses. * Merit & Demerits * File format supported for printing Familiar with various file format EPS, PDF, etc. * Using ICQ based color management.
18-19	Bilingual Software * Setting of Bilingual (Hindi / Any	Digital Printing * Type of digital printing.
	 Regional language) matter * Solid and Tabular setting with any multi script language software i.e. ileap Office / ISM publisher 	 Uses in commercial operations. Inkjet bubble jet /thermal printer/laser printer used for small and big formats Page composing through Regional Language Software.
20-21	Project Work and Binding: * Project Work & Binding the pages in form of Book using spiral/spice binding	Project Work and Binding: * Preparation of Project Work for DTP unit.
	machine.	* Various Binding techniques.
22-23	Design Project: * Practice of Graphic Design with combination of text and illustration in proper layout for preparing Visiting Cards, Letter Head, Book/Magazine Covers, Charts etc.	Costing & Estimating: * Costing and estimating of various jobs * Preparation of masters/paper master, assister (sheet) P S . Plates. Use of masters for taking

		out proofs.	
24	Industrial visits. Various printing processes and related technology, various composing process and related machines, Inwards works and its costing. Estimating and various Binding techniques. Industrial Visit / On job training	Industrial Visit.	
25	Revision		
26	Examination		

List of Tools and Equipments (For a unit of 10 trainees) For the trade of **DESK TOP PUBLISHING OPERATOR** under CTS

SI.No.	Name of the items	Quantity
1	 DESKTOP/WORKSTATION : 2^{na} Generation i3 Processor or Equivalent and above with major minimum features as below: 32/64 Bit Processor (3.06 GHz or Higher, 4 MB 4-Core) or Higher. Network Card : Integrated Gigabit Ethernets 0/100/1000). RAM : 2 GB/ 4 GB DDR3 or Higher. 320 GB / 500 GB HDD or Higher. 19" TFT Monitor DVD Writer PS2 / USB Key Board, USB/Optical Mouse with latest 	5 nos.+ 1 no (Laptop for faculty)
	Licensed of Operating System and anti virus/ OEM Pack(Preloaded).	
2	 8) Professional/Ultimate Edition with Internet Facility. Color Inkjet Printer / DeskJet Printer 1200*600PI Black & Color, Paper size A4, 2 MB Memory, Printing speed 4 to 6 page per minute. (Note : Model should be with latest configuration.) 	1 No.
3	Laser printer with 1 GB RAM and Post Script emulation cartridge. Resolution 2400 DPI or higher. (Note: Model should be with latest configuration.)	1 No.
4	Page scanner flat bed type scanner (Reflection & Transmission) with standard accessories 2400 DPI or higher with OCR software (Note: Model should be with latest configuration.)	1 No.
5	Software (Latest version) I) Adobe Publishing Collection for windows. ii) Ms office iii) Corel Draw v) iLeap office / Any Bi-lingual software vi) Quark Express for Windows. vi) Anti-virus Software. (Compatible with Operating System with Upgradeable license) vi) Adobe In Design	1 set Each.
6	Networking (LAN) All the computer system should be connected in LAN. The printer connected to any of the paces in the LAN should be shared within LAN.	As per requirement
7	Internet connectivity Minimum 2 MBPS or Higher	1 No.
8	3 KVA or higher line interactive UPS with 20 minute battery backup	2 Nos.
	B. Equipments	
9	Sprial/Spico Binding Machine	1 No.

10	Air conditioner 1.5 tons with Voltage Stabilizer	2 Nos.
C	C. Furniture items	
11	Chairs for Computer.	10 Nos.
12	Table with sunmica/Novapan top for computers, printers and other machines.	10 Nos.
13	Steel cupboard.	3 Nos. (2 for Faculties) (1 for stationery items)
14	Storable cabinet - back up/ software	1 No.
15	Book Case.	1 No.
16	Shoe rack (Pigeon Hole Type)	02 nos.
17	Instructor Chair (Lab & Classroom)	2 Nos. (1 for each Faculty) 1 No. (for Classroom)
18	Instructor table with sunmica top (Lab & Classroom)	2 Nos. (1 for each Faculty) 1 No. (for Classroom)
19	Single Seated Desk/Dual Desk	10 Nos./5 Nos.
20	Student lockers (steel) with 8 compartments	2 Nos.
	D. Tools & Miscellaneous items	
21	Em scales, steel rules, scissors, Eye glass 10X.	5 Nos. (Each)
22	Paper cutter (standard size)	1 No.
23	Tape holder	2 Nos.
24	Reference Book for each software.	5 Nos.

Note : Lab should be dust proof and having Electrical wiring with proper earthing

A list of Latest Hardware for the Blind and Low Vision is given below:

- Computers Access
 - JAWS Talking Software for computers Also Supports Hindi and Marathi languages
 - TypeAbility Talking Keyboard Learning Software
 - Talking Typing Software for young learners
 - MAGic Screen Magnification Software
 - MAGic Large Print Keyboard
- Talking Portable Notetaker
- STAND ALONE TEXT READERS
- INSTANT TEXT READERS/ MAGNIFIERS COMPUTER SUPPORTED
- COMPUTER SUPPORTED OCR SCANNING & READING SOFTWARE
- DAISY Talking Book Recorders, Players & Software
- Educational Aids & Devices
 - ANGEL PRO Low Cost Talking All In One Daisy Reader/ E-Book Reader/ MP3 Player/ Radio/ Voice Recorder

- Talking DictionaryTalking Scientific Calculator
- Mathematics Educational Software
- INDEX V4 Braille Printers/ Embossers & Braille Presses
- Tactile Graphics Production