

Revised Syllabus
For the trade of
“Digital Photographer”
Under Craftsman Training Scheme (CTS)
And
Newly Designed Syllabus
For the same trade
Under Apprenticeship Training Scheme (ATS)

2009

Designed by
Government of India
Ministry of Labour and Employment (DGE&T)
CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE
EN- Block, Sector-V, Salt Lake,
Kolkata- 700091

List of members attended the Trade Committee Meeting held on 11.02.2009 in CSTARI
Kolkata for revising & designing the course curriculum on
DIGITAL PHOTOGRAPHER under CTS & ATS scheme respectively.

SL NO.	NAME & DESIGNATION S/Shri	REPRESENTING INDUSTRIES/INSTITUTE	REMARKS
1	S. D. Lahiri, Director	C.S.T.A.R.I, Kolkata	Chairman
2	Aditya Prasad Mitra, Dean, Department of Applied Art.	Rabindra Bharati University, Kolkata	Member
3	Krishnendu Sinha, Lecturer, Visual Art	Rabindra Bharati University, Kolkata	Member
4	Ranjan Kr Bose, Sr. Lecturer, Department of Photography	Regional Institute of Printing Technology, Kolkata	Member
5	Binayak Pal, Faculty, Department of Photography	Indian Institute of Chemical Biology(CSIR),Kolkata	Member
6	Biraja Prasanna Kar, Faculty, Department of M.P.P	Roopkala Kendra, Kolkata	Member
7	S. Louis, Sr.Cameraman	Doordarshan Kendra,Kolkata	Member
8	Keshab Ch. Manna, Faculty, Department of Photography	Satyajit Ray Film & Television Institute,Kolkata	Member
9	Srimati Mukherjee, Faculty	Webel DQE Animation Academy	Member
10	Shoubhik Bhattacharya, Faculty	Webel DQE Animation Academy	Member
11	Pratip Ranjan Mukherjee, Sr. Teacher, Photography	Naktala, High School	Member
12	A.Jayaraman, Trg. Officer	C.T.I, Chennai	Member
13	Anil Kumar, Joint Director	C.S.T.A.R.I, Kolkata	Member
14	Is war Singh, Joint Director	R.D.A.T (ER) Kolkata	Member
15	M. C. Sharma, Joint Director	C.S.T.A.R.I, Kolkata	Member
16	L.K.Mukherjee, Dy. Director	C.S.T.A.R.I, Kolkata	Member
17	A. Nandi, Dy. Director	C.S.T.A.R.I, Kolkata	Member
18	P.K.Dutta, Trg Officer	C.S.T.A.R.I, Kolkata	Member
19	S.B.Sarder, Trg Officer	C.S.T.A.R.I, Kolkata	Member
20	M.K.Batabayal, JTA	C.S.T.A.R.I, Kolkata	Member

GENERAL INFORMATION

- 1. Name of the Trade : Digital Photographer**
- 2. N C O Code No :**
- 3. Entry Qualification : 10th Passed Under 10 + 2 system**
- 5. Duration of Training : One year (52 Weeks)**
Under CTS
- 6. Space required : 3.5 sq mt. per Trainee.**
- 7. Duration of Apprenticeship : 18 months including**
Training Craftsman Training of one
Year.
- 8. Rebate for Ex-ITI trainees : One year**
- 9. Ratio of Apprentices to Worker : 1:5**

Syllabus for the trade of “Digital Photographer”
Under Craftsman Training Scheme (CTS)
 (Duration of Training – One Year)

Week No.	Trade Practical	Trade Theory
1	Introduction to training familiarization with the Institute. Importance of trade training. Instruments used in the trade. Handling of Digital cameras, compact and SLR.	Importance of safety and general precautions observed in the trade by the Institution. Care & maintenance of equipments & material. Introduction to photography and its applications. Introduction to Cameras.
2	Use of natural light, tungsten light, fluorescent light, single & multiple electronic flash, reflectors, exposure meters, studio flash & accessories and guide number.	Understanding visual communication and aesthetic in Photography. Theory of light and sources. Colour temperature & colour balance.
3-7	Practice on different types of composition using various lighting techniques and use of lenses. Taking photographs out door & indoor. Hands on special areas of photography.	Exposure, Conception of aperture, shutter speed, depth of field. Lens and its accessories. Knowledge of different types of lenses & their uses. Covering power/ angle, aberrations of lens, perspective. Use of lens hood, tripod, self timer.
8-9	Introduction to Computer Fundamentals	
10-14	Digital editing by using bit map and vector based image editing software. Ability of taking printouts of photographs taken by a digital camera from computer printer. Concept of image transportation to storage media. Practice of sending photographs through internet, sending photographs through E-mail and printing and analysis of images.	Knowledge of image editing software. Knowledge of different types of printing media. for hard copy. Knowledge of different types of printer in respect of their resolution
15-16	Ability to scan photographs and capture frames	Knowledge of other different types through scanner & capture card, editing of capturing methods through scanners frame grabber with digital camera. Knowledge of photo editing through different types of updated photo editing softwares.

17	Internship (visit to studios and labs etc)	
18-22	Practice and Project work (Three weeks for practical and two weeks for project work)	
23-24	Handling of digital video cameras, Tape, DVD, HDD and accessories. Types of common shots and movements. Dimension of images.	Introduction to video, use of video as a communication medium. types of video cameras-their various formats, types of various video tapes, DVD, HDD. Principle of video recording.
25-28	Lighting of different areas of video shooting. Practice on three point lighting, indoor and outdoor lighting etc. Practice on hard & soft, bounce, silhouette lighting, key lighting. Use of reflectors & skimmers.	Knowledge of different types of lighting. Concept of power distribution depending upon the requirement of the light output.
29-32	Using of microphones. Audio video recording, mixing, editing, dubbing of sound.	Concept of different types of microphones. Knowledge of sound recording, mixing, editing, dubbing etc.
33	Idea & planning of production - proposal, scope, script, shot division, visualization according to script.	Planning for production, pre-production, production and post production etc. Introduction to multi camera setup and production.
34-41	Shooting and editing of short documentary, news items , interviews, music video etc.	Idea of different subject to be selected for shooting.
42	Storing materials in media. Using software for changing the formats.	Visual digitization, authoring, final output and format change.
43-44	Internship (visit to production house/studios etc)	
45-50	Practice and preparation for project work	
51-52	Revision and test	

Social Studies : The syllabus is already approved and is common for all the trades

**List of tools and equipments for the trade of Digital
Photographer under CTS
(For a batch of 16 trainees)**

Sl. No.	Items	Qty. (Nos.)
1.	Digital compact Still Camera with standard accessories	5
2.	Digital SLR Camera with standard accessories.	2
3.	Digital SLR Camera with detachable recorder (Latest model)	1
4.	Video capture card	2
5.	14" LMD monitor	2
6.	Multi media speaker 2.1	2sets
7.	Digital lens (Normal/wide/telephoto)	2 sets each
8.	Desiccators 15" dia	5
9.	Digital handycam with cassette and DVD, hard disc type	3
10.	Zoom lens matchable with Digital SLR camera (28-70mm, 70-300mm)	1 each
11.	Fish eye lens matchable with Digital SLR camera	1
12.	Camera stand for still camera	2
13.	Camera stand for video (low base)	1
14.	Cable release	2
15.	Different types of filters, (10 types) matchable with camera (Graduated, Star filter, multi image, ND, Sky light, polarizer, colour filter set, 80B, both for video & still)	1 each
16.	Extension ring (4 types)	2
17.	Electronic flash gun (Manual & auto) Different types with slave unit	4
18.	Studio light	4
19.	Spot light	2
20.	Electronic umbrella light	4
21.	Air conditioner for studio (1.5 ton)	4
22.	Exposure meter (digital incident)	6
23.	Studio room (30ft. x 30ft. x 18ft. height) fitting with cataract system, light grid, sound proof, AC, with cyclorama	1 room
24.	Studio & class room furniture	
	a) Steel chairs folding type with arm rest for trainees	20
	b) Working table moulded	20
25.	Computer with multimedia facility and graphic accelerator card and DVD writer, CD drive, Zip drive, video capture card (Latest configuration) Connected with LAN	10
26.	Standalone DVD recorder	2
27.	Inkjet printer with colour cartridge (1200 dpi or higher)	2
28.	Laser printer with colour cartridge (1200 dpi or higher)	2
29.	Scanner (1200 dpi or higher)	2
30.	UPS (5 KV A)	10
31.	Windows operating system XP or latest version	1
32.	Photo editing software like Photoshop CS 3 etc.	as required
33.	MS-Office latest version	1

34.	Macro media Free Hand latest version	1
35.	Flash latest version	1
36.	Director latest version	1
37.	Sound Forge/ cool edit pro latest version	2
38.	Digit Mix latest version	1
39.	Anti Virus software latest version	1
40.	Adobe premier available version	1
41.	Table for computer, printer and scanner	10
42.	Chairs for computer classes	20
43.	DVD writable (latest capacity)	100
44.	DVD Re-writable (latest capacity)	50
45.	Portable hard disk 320GB– 1 TB	1
46.	Pen drive 8 GB, 16 GB	5 each
47.	Multiple card reader	5
48.	Reflectors (Folding Portable)	10
49.	Cool light	8
50.	Multi 10 & Multi 20	10 each
51.	Sun Gun	6
52.	Porto pack light	3 sets
53.	Tape matchable with the camera	as required
54.	Slide & film high resolution scanner with adapter for A3	1
55.	Slide & film high resolution scanner with adapter for A4	1
56.	DV VTR according to digital camera	1
57.	DV VTR with play back adapter for camcorder	1
58.	Play back adapter for video camera	1
59.	Battery charger for still camera	1
60.	Battery charger for video camera	1
61.	Battery for digital SLR camera	12
62.	Battery for digital video camera'	12
63.	Microphone (boom)	1
64.	Microphone (lapel)	2
65.	Trolley set 30 ft.	1
66.	Round trolley 30 ft.	1
67.	Cable	as required
68.	Extension Board	as required
69.	BNC cable with various connectors (80 ohms)	as required
70.	Steel almirah	2
71.	Pigeon hole steel almirah	1
72.	Fire extinguisher	4

Optional Tools & Equipments:

1)	Over head projector with screen	1
2)	LCD Projector	1
3)	DLP projector and motorized projection screen	1