

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

COMPETENCY BASED CURRICULUM

DIGITAL PHOTOGRAPHER

(Duration: One Year)

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL-4



SECTOR – MEDIA AND ENTERTAINMENT



DIGITAL PHOTOGRAPHER

(Non-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 "Digital Photographer" 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 in one year duration are as below:

During the one-year duration, the trainee learns about elementary first-aid, firefighting, environment regulation and housekeeping, etc. The trainee identifies trade tools, digital cameras, compact and SLR. The trainee will be able to do the practical by the use of natural light, tungsten light, fluorescent light, single and multiple electronic flash reflectors, exposure meters, studio flash and its accessories. They will also be able to do the practical on various lighting techniques for different lenses and will do practice on special areas of photography in outdoor and indoor conditions .They will be able to do practical on computer system by digital editing software, printing the photographs taken by digital cameras and will be able to do the image transportation to the storage media, sending photographs through E-mail and to Scan photographs, capture frames and analysis of images. There will be a visit to studio for six weeks where they will be able to handle the digital Video cameras, Tape, DVD, HDD, accessories and exposure to take different common shots, dimension of images and movements as per requirement. The trainee will be able to do lighting of different areas of video shooting, practice on three point lighting indoor and outdoor. Taking photographs using different types of lenses using different aperture, shutter speed setting for still, Video camera, CCTV and spy camera. Taking photographs of portrait, studio photography, commercial/Advertisement photography, sports photography, fashion photography, slow and fast moving objects, functions, machines and processes, landscape, architecture, night photography children, animal, birds, shooting spot etc by digital camera. They will have the concept of audio video recording, mixing, editing, dubbing of sound, using different types of microphones. Shooting of different areas and topics such as sports, wildlife, modeling, drama, documentary, serial, story board making, news, interview, seminar/ workshop, industrial, live broadcasting, musical event, advertisement, etc. The trainee also undergoes two weeks on-the-job training in various studios/labs at the end of the year which gives them more practical exposure to the professional working environment.



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 the economy/ labour market. The vocational training programs 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 programs of DGT for propagating vocational training.

'Digital Photographer' trade under CTS is one of the professional 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 the core area (Employability Skill) imparts requisite core skills, knowledge, and life skills. After passing out the training program, the trainee is awarded National Trade Certificate (NTC) by DGT which is recognized worldwide.

Candidates broadly need to demonstrate that they are able to:

- Read and interpret technical parameters/documents, 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 skill, knowledge & employability skills while performing jobs.
- Document the technical parameters 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 one year: -

| S No. | Course Element | Notional Training Hours |
|-------|---------------------------------------|----------------------------|
| 1. | Professional Skill (Trade Practical) | 1200 |
| 2. | Professional Knowledge (Trade Theory) | 240 |
| 3. | 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 has to maintain an 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:

| Doufousson on Lovel | Fuidance | |
|------------------------------------------------------------------------|-----------------------------------------------------------------|--|
| Performance Level | Evidence | |
| (a) Weightage in the range of 60%-75% to be allotted during assessment | | |
| For performance in this grade, the candidate | Demonstration of good skills and | |
| should produce work which demonstrates | accuracy in the field of work/ | |
| attainment of an acceptable standard of | assignments. | |
| craftsmanship with occasional guidance, and | A fairly good level of neatness and | |
| due regard for safety procedures and | consistency to accomplish job activities. | |
| practices | Occasional support in completing the | |
| | task/ job. | |
| (b)Weightage in the range of 75%-90% to be allotted during assessment | | |
| For this grade, a candidate should produce | Good skill levels and accuracy in the field | |
| work which demonstrates attainment of a | of work/ assignments. | |
| reasonable standard of craftsmanship, with | A good level of neatness and consistency | |
| little guidance, and regard for safety | to accomplish job activities. | |



| ן | hotographer | | | | | | | |
|---|--------------------------|---|--------|---------|----|------------|-----|-------|
| | procedures and practices | • | Little | support | in | completing | the | task/ |
| | | | job. | | | | | |

(c) Weightage in the range of more than 90% 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 and accuracy in the field of work/ assignments.
- A high level of neatness and consistency to accomplish job activities.
- Minimal or no support in completing the task/job.



Digital Photographer General; takes photograph of persons, places, or other subjects, using various kinds of photographic equipment. Measures day light using exposing meter or arranges artificial lighting and holds or places camera at desired angle and distance from subject to be photographed. Focuses lens and adjusts lens opening and exposure time. Loads camera with film or plate. Presses lever to open lens shutter and exposes film or plate by pressing lever, allowing time, if for publication. Supplies series of pictures on selected topics, for writing feature articles in magazines. May develop films and print copies. Photographers and Image and Sound Recording Equipment Operators, Other take photographs of persons, places and objects and record sound for different purposes and include Photographers, Image and Sound Recording Equipment Operators not elsewhere classified.

Photographer News; or Press Photographer photographs news events, persons or objects for use in news-papers, magazines and other publications. Receives instructions from News Editor or Chief Reporter regarding nature of pictures to be taken. Travels to location; loads camera with film, waits for suitable moment and takes photographs. Attends State functions and parties and takes photographs of important persons arousing special interest of news value for publication. Accompanies important visitors and dignitaries and takes photographs of significant events associating important persons. Removes exposed film for developing and printing. Examines print, gives appropriate title or heading, and hands it over to News Editor.

Photographer, Aerial; photographs objects, places and areas of vital importance from aero planes in flight, for use in surveys, planning, development and other scientific and military purposes. Determines number of exposures and time lapse between them by making necessary calculations. Loads camera, adjusts exposure-time and exposes film by opening shutter at calculated intervals. Operates and maintains automatic camera and photo equipment for aerial photographs. Develops aerial films of various types in automatic, semi-automatic or manual tank developers. Makes prints for photo interpretation.

Digital photographical institutions; it will provide the familiarization with the institution, its importance of trade training & professional use of Digital camera into different types of uses into variety of interests of the Govt. and public sectors. After getting trained, the trainee will be able to do the job for making short documentary, news items, and interviews of great personalities of different areas, music videos and professional photography for wild life, modeling, drama documentary, serial, story board making news, live broadcasting, seminar/workshop industrial, musical event, advertisement as well as domestic purposes etc.



Reference NCO-2015:

- (i) 3431.0100 Photographer General
- (ii) 3431.0200 Photographer News
- (iii) 3431.0300 Photographer, Aerial
- (iv) 3431.9900 Photographer & Others



| Name of the Trade | DIGITAL PHOTOGRAPHER |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trade Code | DGT/1082 |
| NCO – 2015 | 3431.0100, 3431.0200, 3431.0300, 3431.9900 |
| NSQF Level | Level-4 |
| Duration of Craftsmen Training | One Year (1600 Hours) |
| Entry Qualification | Passed 10 th class examination |
| Minimum Age | 14 years as on first day of academic session. |
| Eligibility for PwD | LD, CP, LC, DW, AA, DEAF, HH, AUTISM |
| Unit Strength (No. of Student) | 24 (There is no separate provision of supernumerary seats) |
| Space Norms | 48 Sq. m |
| Power Norms | 6.35 KW |
| Instructors Qualification fo | or: |
| (i) Digital Photographer Trade | Diploma (Minimum 2 Years) in Photography/ Cinematography/ Videography from recognized board or relevant Advanced Diploma (Vocational) from DGT with two years' experience in the relevant field. OR NAC/NTC passed in the trade of Digital Photographer/Photographer 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 |
| (ii) Employability Skill | qualifications. However both of them must possess NCIC in any of its variants.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 12 th / Diploma level and above) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------|
| | OR Existing Social Studies Instructors in it is with short term ToT Course |
| | in Employability Skills from DGT institutes |
| (iii) Minimum age for | 21 years |
| Instructor | |
| List of Tools and Equipment | As per Annexure – I |

Distribution of training on hourly basis: (Indicative only)

| Total Hrs./week | Trade Practical | Trade Theory | Employability Skills |
|-----------------|-----------------|--------------|----------------------|
| 40 Hours | 30 Hours | 6 Hours | 4 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)

- 1. Identify and use Lenses following safety precautions.
- 2. Apply various types of lights on the photographs using lighting techniques, taking indoor and outdoor photographs and use of special areas of photography.
- 3. Use different types of object lighting: Daylight, Artificial light and their combination. Tungsten light, fluorescent Light, single & multiple electronic flash, reflectors, exposure meters.
- 4. Work with basic portrait, studio photography, Commercial/Advertisement photography, Sports photography, fashion photography, slow and fast moving objects, functions, machines and processes, landscape, architecture, night photography children, animal, birds, shooting spot etc. by digital camera, candid photography, time lapse photography.
- 5. Apply Computer Fundamentals Monitor Calibration, Interfaces.
- 6. Apply Image transportation by using editing software, taking printouts of photographs by using computer system from digital camera.
- 7. Develop the skill & knowledge of Multimedia in Photography. Demonstrate most of the important aspects of Photo Editing software Elements. Show the usual workflow steps for photo editing, organizing, and sharing.
- 8. Work with Images & Graphics.
- 9. Demonstrate four Key Skills of a Successful Photographer and procurement of good quality cameras and its accessories.
- 10. Use different video equipment and their operations. Demonstrate the basic principles of video and audio recording.
- 11. Apply skill of Editing Techniques and the motion Picture Photography techniques.
- 12. Apply Principles of Light, demonstrating the quality and types of lights.
- 13. Demonstrate the shooting techniques by using digital video camera with pan-tilt-zoom and use of camcorder camera operating techniques.
- Apply Audio recording sound by using different types of microphones. Mixing, editing, dubbing and sweetening of sound
- 15. Use of three point lighting for video shooting in a studio and selection of shooting camera, studio lights accessories for field lighting
- 16. Make documentary films, Shoot interviews, news, and make advertisements etc.
- 17. Work with post-production.
- 18. Apply the necessity of planning a production while working.



| L | LEARNING OUTCOMES | ASSESSMENT CRITERIA |
|----|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Identify and use Lenses | Identify different types of lenses for different types of digital camera. |
| | following safety | Demonstrate lenses with wide angle, Normal, telephoto and zoom |
| | precautions. | range. |
| | | Identify and understand the focal length of the different types of |
| | | lenses. |
| | | Demonstrate disposal procedure of wastage/electronic materials. |
| | | Identify the different types of lenses to take variety of photo. |
| | | |
| 2. | Apply various types of | Practice on different types of composition using various lighting |
| | lights on the | techniques. |
| | photographs using | To do practice on taking photographs by varying aperture, shutter |
| | lighting techniques, | speed and use of different types of lenses. |
| | taking indoor and | To do practice on taking photographs by varying aperture, shutter |
| | outdoor photographs | speed and use of different types of lenses. |
| | and use of special areas | To do practice of taking photographs on special area of photography. |
| | of photography. | |
| 3. | Use different types of | Take photographs in natural light, tungsten light and fluorescent |
| | object lighting: | light. |
| | Daylight, Artificial light | Take photographs with single & multiple electronic flash. |
| | and their combination. | Take photographs with Reflectors, exposure meters, studio flash. |
| | Tungsten light, | Take photographs with different accessories (Lux Meter, Slave Unit) |
| | fluorescent Light, single | and guide number. |
| | & multiple electronic | |
| | flash, reflectors, | |
| | | |
| | exposure meters. | |
| | exposure meters. | |
| 4. | exposure meters. Work with basic | Demonstrate different parts of digital camera photography for |
| 4. | • | Demonstrate different parts of digital camera photography for commercial/advertisement. |
| 4. | Work with basic | |
| 4. | Work with basic portrait, studio | commercial/advertisement. |
| 4. | Work with basic portrait, studio photography, | commercial/advertisement. Demonstrate photography for sports by digital cameras. |
| 4. | Work with basic portrait, studio photography, Commercial/Advertise | commercial/advertisement. Demonstrate photography for sports by digital cameras. Demonstrate photography for fashion by digital cameras. |



| | slow and fast moving | moving conditions by digital cameras. |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| | objects, functions, machines and processes, landscape, architecture, night photography children, animal, birds, shooting spot etc. by digital camera, candid photography, time lapse photography. | Demonstrate photography in night conditions for children/group by digital cameras |
| | | |
| 5. | Apply Computer | Work with operating software with accessories and configuration of |
| | Fundamentals Monitor Calibration, Interfaces. | multimedia PC with other application software. Monitor Calibration. |
| | Calibration, interfaces. | Work on multimedia platform for internet and its functions. |
| | | |
| 6. | Apply image | Perform digital editing by using bit map and vector based image |
| | transportation by using editing software, taking | editing software. |
| | printouts of photographs | Demonstrate ability of taking printouts of photographs taken by a |
| | by using computer | digital camera from computer printer. |
| | system from digital | Explain the concept of image transportation to storage media. |
| | camera. | Demonstrate sending photographs through internet/E-mail. |
| | | |
| 7. | Develop the skill & | Demonstrate ability to work with Adjustment Layers. |
| | knowledge of | Demonstrate blending modes for layers using filters, styles, and |
| | Multimedia in | |
| | Photography. | Repair and retouching tools and techniques with the Smart Brush and |
| | Demonstrate most of | adjustment layers. |
| | the important aspects | Demonstrate colour spaces, colour management, and printing. |
| | of Photo Editing software Elements. | Demonstrate resolution and pixels for printing image with the we |
| | Show the usual | band working with old photos. Scanning, colorizing, black & white. |
| | workflow steps for | Perform slide shows with adding music and titles to old photographs |
| | photo editing, | and old video. |
| | organizing and sharing. | Demonstrate the Photo merge tools to combine the best parts of |
| | organizing and sharing. | photos/video. |
| 0 | Mark with Images 9 | Demonstrate can photographs and conture frames and making still |
| 8. | Work with Images & Graphics. | Demonstrate can photographs and capture frames and making still |
| | отаринсэ. | images in multimedia application. |



| 9. | Demonstrate Four Key Skills of a successful Photographer and Procurement of a good quality cameras and its | Demonstrate the methods of storing & processing (Raster method, Vector method) – Factors influencing quality (Resolution, Pixel depth, Pixel aspect ratio) – Colour models. Demonstrate methods of capturing: Scanner – Digital Camera – Frame Grabber and IMAGE COMPRESSION Demonstrate hard skill: Technical Demonstrate on hard: Artistic Communication skill and body language to be checked. |
|-----|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | accessories. | |
| 10. | Use different video equipment and their operations. Demonstrat e the basic principles of video and audio recording. | Work with digital video cameras on tripod stand, VTR, Camcorder, Monitor. Set up a single camera unit: Black balance and White balance, Adjustment of viewfinder and monitor, Familiarization of in- camera filters and other in-camera controls, Day-&-night Video-graphy by manipulation of white balance. Demonstrate operation of various camera movements. |
| | | |
| 11. | Apply skill of Editing Techniques and the motion Picture Photography | Demonstrate basic shot terminology: Close up, Mid shot, Long shot, Big close up, Mid-long shot, Extreme long shot, Point of view (POV) shot, Over-the Shoulder(OSS) shot, high angle and low angle shot, top angle shot. |
| | techniques. | Demonstrate Action Axis (180 degree rule); matching of action, Static and Dynamic Continuity, Reverse angle. |
| | | Perform operations and Camera movements Pan, tilt, trolley, dolly, crane, steady – cam and usage of other camera support. |
| | | |
| 12. | Apply Principles of Light, demonstrating the quality and types of lights. | Explain basic principle of light. (i) Electromagnetic spectrum, visible spectrum. (ii) Behavior of light (Direct and Indirect)(iii) Inverse square law. (iv) Basic principles of color, Color temperature, CIE diagram, trichromatic theory of vision. Work on quality of light: Specular, diffused and bounced. (ii) Types of light: Natural day light, Incandescent, (tungsten- halogen, LED and PAR etc. |
| | | Work on Low key and High key technique of lighting, use of back |



| | | light, kicker and background light. Practice to light up 2-point and 3-point lighting in an indoor situation. Light source filters and gels for mixed lighting situation. |
|-----|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Use the reflectors, mirrors, skimmers as fill light in an outdoor situation. |
| | | Situation. |
| 13. | Demonstrate the Shooting techniques by using digital video camera with pan-tilt-zoom and use of camcorder camera operating techniques. | Handle digital video camera and their accessories, camera Movement – Pan – tilt- Zoom. Dimension of image. Explain basic camera do's and "dont's Before and after the shoot. Work on DSLR and video camera. Assignment must be given at week end and monitored regularly. |
| | | |
| 14. | Apply the Audio recording sound by using different types of | Work on the concept of audio video recording using External Microphone and Line recording. Perform mixing, editing, dubbing of sound. |
| | microphones. Mixing, | remaining, carang, addaing or sound. |
| | editing, dubbing and | |
| | sweetening of sound. | |
| 1 [| llee of three naint | Dractice for Lighting of different areas of video sheeting |
| 15. | Use of three point lighting for video | Practice for Lighting of different areas of video shooting. Practice on three point lighting, indoor and outdoor lighting etc. |
| | shooting in a studio | Practice on timee point lighting, indoor and outdoor lighting etc. |
| | and selection of shooting camera, | Practice on hard and soft lighting. Single camera lighting, bounce lighting. |
| | studio lights | Use of reflectors& skimmer. |
| | accessories for field | |
| | lighting. | |
| | | |
| 16. | Make documentary | Shoot different areas and topics such as sports, wildlife, modelling, |
| | films, Shoot interviews, | demand documentary, serial. |
| | news, and make | Perform shooting of news, interview, seminar/ workshop, industrial, |
| | advertisements etc. | live broadcasting, musical event, Advertisement, Architectural, |
| | | monuments, travel videos and Landscapes. |
| 17 | Work with post- | Demonstrate Video Editing Process. |
| 17. | production. | Edit thestory, Trim thestory, Addmusic, titles and transitions, |
| | p. oddectorii. | Lane thestory, frint thestory, Additions, titles and transitions, |



| | Rearranging, adding and removing sections of video clips and audio clips. Applying colour correction, filters and other enhancements, Creating transitions between clips. |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Perform Non-Linear Video Editing technique and their utilisation for various types of production. |
| | |
| 18. Apply the necessity of | Make a plan for production and qualities of a good production. |
| planning a production | Explain principle of direction during production, objective to be |
| while working. | coped with during pre-production. |
| | |



| | SYLLABUS FOR DIGITAL PHOTOGRAPHER TRADE | | | |
|-----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | DU | URATION: ONE YEAR | |
| Duration | Reference Learning Outcome | | Professional Skills (Trade Practical) With Indicative Hours | Professional Knowledge (Trade Theory) |
| Professional Skill 60 Hrs; Professional Knowledge 12 Hrs | Identify and use Lenses following safety precautions. | 3. To d graph / c o o o o o o o o o o o o o o o o o o | dentification of basic first aid evices and use them in ifferent circumstances. (5 rs) dentification of different fire xtinguishers and its use as er requirement and also the se of safety alarms. (5 hrs) to identify, handle and isposed off dangerous oods according to policy and rocedures and also know ow to report to supervisor competent authority in case of any incident. (10 hrs) to identify and observe vacuation procedure ccording to site policy. (5 rs) to identify different types of igital cameras and its ifferent parts. (5 hrs.) | 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 & it's History (From pin-hole camera to digital camera) (06 hrs) |
| | | le d 7. To | o identify different types of enses for different types of igital camera (5hrs) o use the lenses with wide | Types of Lenses Four basic types of lenses, they are: •Normal •Wide angle •Telephoto •Zoom |
| | | 8. Ic | ngle, Normal, telephoto and com range. (10 Hrs) dentify and understand the ocal length of the different | Introduction to Focal length. Depth-of-field in comparison with human eye. Depth of focus |



| | | | types of lenses. (5 Hrs) | Perspective ,aberrations of |
|---------------|----------------------|-----|--------------------------------|----------------------------------|
| | | 9. | Identify and practice the | Lens. (06 hrs) |
| | | | different types of lenses to | |
| | | | take variety of photo. (5Hrs) | |
| | | 10. | Practice with digital camera | |
| | | | lenses with depth of field. (5 | |
| | | | hrs) | |
| Professional | Apply various types | 11. | Practice on different types of | Correct Exposure, ('rules' of |
| Skill 60 Hrs; | of lights on the | | composition using various | photographic composition) |
| | photographs using | | lighting techniques. (15 hrs) | |
| Professional | lighting techniques, | 12. | To do practice on taking | Conception of aperture, shutter |
| Knowledge | taking indoor and | | photographs by varying | speed, ISO. |
| 12 Hrs | outdoor | | aperture, shutter speed and | |
| | photographs and | | use of different types of | Knowledge of Pixels& their uses. |
| | use of special areas | | lenses. (15 Hrs) | Use of lens hood, tripod and |
| | of photography. | 13. | To do practice on taking | mono pod stand. (12 hrs) |
| | | | photographs by varying | |
| | | | aperture, shutter speed and | |
| | | | use of different types of | |
| | | | lenses. (15 Hrs) | |
| | | 14. | To do practice of taking | |
| | | | photographs on special area | |
| | | | of photography. (15Hrs) | |
| Professional | Use different types | 15. | To practice of taking | Understanding visual |
| Skill 60 Hrs; | of object lighting: | | photographs in natural light, | communication and aesthetic in |
| | Daylight, Artificial | | tungsten light and | Photography. Theory of light |
| Professional | light and their | | fluorescent light. (20 hrs) | and sources. |
| Knowledge | combination. | 16. | To practice of taking | White balance, Kelvin |
| 12 Hrs | Tungsten light, | | photographs with single & | temperature & colour balance. |
| | fluorescent Light, | | multiple electronic flash (10 | (12 hrs) |
| | single & multiple | | hrs) | |
| | electronic flash, | 17. | To practice of taking | |
| | reflectors, exposure | | photographs with Reflectors, | |
| | meters. | | exposure meters, studio | |
| | | | flash. (20 hrs) | |
| | | 18. | To practice of taking | |
| | | | photographs with different | |
| | | | accessories (Lux Meter, Slave | |
| | | | Unit) and guide number. (10 | |



| | | | Hrs) | |
|---------------------------|-------------------------------------|-----|---------------------------------------------------|-------------------------------------------------------|
| Professional | Work with basic | 19. | Practice on different parts of | - |
| Skill 90 Hrs; | portrait, studio | | digital camera photography | professional shooting |
| Duefessional | photography, | | for | techniques. |
| Professional Knowledge | Commercial/Adverti sement | | commercial/advertisement.(20 Hrs) | Learning & usage of various filters like- (ND-Neutral |
| 18 Hrs | photography, Sports | 20 | Practice of photography for | , |
| 10 1.110 | photography, | | sports by digital cameras(20 | hrs) |
| | fashion | | Hrs) | , |
| | photography, slow | 21. | Practice of photography for | |
| | and fast moving | | fashion by digital cameras(10 | |
| | objects, functions, | | Hrs) | |
| | machines and | 22. | Practice of photography for | |
| | processes, land | | basic architecture | |
| | scape, architecture, | | /monuments with digital | |
| | night photography children, animal, | 22 | cameras. (20 Hrs) Practice of photography for | |
| | birds, shooting spot | 23. | animal and birds in slow and | |
| | etc. by digital | | fast-moving conditions by | |
| | camera, candid | | digital cameras(10 Hrs) | |
| | photography, time | 24. | Practice of photography in | |
| | lapse photography. | | night conditions for | |
| | | | children/group by digital | |
| | | _ | cameras(10 Hrs) | |
| Professional | Apply Computer | 25. | Practice on operating | |
| Skill 30 Hrs; | Fundamentals Manitor Calibration | | software with accessories | ROM and Graphic cards, Concept of operating software, |
| Professional | Monitor Calibration, Interfaces. | | multimedia PC with other | , , , |
| Knowledge | interfaces. | | application software. | |
| 06 Hrs | | | Monitor Calibration. (15 Hrs) | image editing software & its |
| | | 26. | Practice on multimedia | application. |
| | | | platform for internet and its | Multimedia platform, |
| | | | functions. (15 Hrs) | accessories and configuration of |
| | | | | multimedia PC. (06 hrs) |
| Professional | Apply image | 27. | Practice on digital editing by | Knowledge of image editing |
| Skill 60 Hrs; | transportation by | | using bit map and vector | software. Knowledge of |
| Drofossianal | using editing | | based image editing | different types of printing media |
| Professional Knowledge | software, taking printouts of | 28 | software. (20 Hrs) Practice on ability of taking | for hard copy. Knowledge of different types of |
| Kilowicuge | printouts 01 | 20. | Tractice of ability of taking | Miowieuge of unferent types of |

| 12 Hrs | photographs by using computer system from digital camera. | printouts of photographs taken by a digital camera from computer printer. (20 Hrs) 29. Practice on the concept of image transportation to storage media. (15 Hrs) 30. Practice of sending photographs through internet/E-mail. (5 Hrs) | resolution. (12 hrs) |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Professional Skill 90 Hrs; Professional Knowledge 18 Hrs | Develop the skill & knowledge of Multimedia in Photography. Demonstrate most of the important aspects of Photo Editing software Elements. Show the usual workflow steps for photo editing, organizing, and sharing. | 31. Practice on ability to Work with Adjustment Layers. (10 Hrs) 32. Practice on blending modes for layer susing filters, styles, and effects, working with text layers. (10 Hrs) 33. Practice on repairing and retouching tools and techniques with the Smart Brush and adjustment layers. (10 Hrs) 34. Practice on colour spaces, colour management, and printing. (10 Hrs) 35. Practice on resolution and pixels for printing image with the web and working with old photos. Scanning, colorizing, black & white. (15 Hrs) 36. Practice on slide shows with adding music and titles to old photographs and old video. (10 Hrs) 37. Practice by using the Photomerge tools to combine the best parts of photos/video. (10 Hrs) | photos in Photo editing software & Elements, learning the tools and techniques in a natural way. (18 hrs) |



| Professional | Work with Images & | 38. | Practice to scan photographs | Knowledge different types of |
|---------------|---------------------|-----|-------------------------------------------|-------------------------------------|
| Skill 30 Hrs; | Graphics. | | and capture frames and | scanners& capture cards, |
| | | | making still images in | editing and capturing methods. |
| Professional | | | multimedia application. (5 | Knowledge of photo editing |
| Knowledge | | | Hrs) | through different types of |
| 06 Hrs | | 39. | DIGITAL IMAGE: Practice on | updated photo editing |
| | | | the methods of storing & | software's. (06 hrs) |
| | | | processing (Raster method, | |
| | | | Vector method) – Factors | |
| | | | influencing quality | |
| | | | (Resolution, Pixel depth, Pixel | |
| | | | aspect ratio) – Colour | |
| | | | models. (15 Hrs) | |
| | | 40. | PRACTICE ON METHODS OF | |
| | | | CAPTURING: Scanner – | |
| | | | Digital Camera – Frame | |
| | | | Grabber and IMAGE | |
| | | | COMPRESSION (10 Hrs) | |
| Professional | Demonstrate four | 41. | Practice on hard skill: | External Soft skills. Internal Hard |
| Skill 60 Hrs; | Key Skills of a | | Technical (20 Hrs) | Skills. |
| | Successful | 42. | Practice on hard : Artistic (10 | Knowledge for the selection |
| Professional | Photographer and | | Hrs) | criteria for a good quality |
| Knowledge | procurement of | 43. | Practice on soft skills(10 Hrs) | camera and its accessories. |
| 12 Hrs | good quality | 44. | Practice on Communication, | |
| | cameras and its | | Body Language. (20 Hrs) | Etiquette of Photography Basic |
| | accessories. | | | Rule for Photographer |
| | | | | Corporate Etiquette |
| | | | | Ethics of Photographer |
| | | | | (NPPA) |
| | | | | The combination of skilled |
| | | | | photographer and the empathic |
| | | | | communicator is what makes a |
| | | | | successful photographer. (12 |
| | 1166 | | | hrs) |
| Professional | Use different video | 45. | Practice with digital video | Persistence of Vision, |
| Skill 90 Hrs; | equipment and their | | cameras on tripod stand, VTR , | Understand the concept of |
| | operations. | | Camcorder, Monitor. (30 Hrs) | handling the video cameras and |
| Professional | Demonstrate the | 46. | To set up a single camera | their accessories. |
| Knowledge | basic principles of | | unit: Black balance and White | |



| 18 Hrs | video and audio | balance, Adjustment of | Understand the techniques of |
|---------------|------------------------|------------------------------------|-------------------------------------|
| | recording. | viewfinder and monitor, | shooting etc. |
| | | Familiarization of in- camera | |
| | | filters and other in-camera | Understanding theoretical |
| | | controls, Day-&-night | knowledge of videography. (18 |
| | | Videography by manipulation | hrs) |
| | | of white balance. (20 Hrs) | |
| | | 47. Operational practice of | |
| | | various camera movements. | |
| | | (40 Hrs) | |
| Professional | Apply skill of Editing | 48. Practice on basic shot | Camera, parts & its Setting |
| Skill 90 Hrs; | Techniques and the | terminology : Close up, Mid | Knowledge of visual |
| | motion Picture | shot, Long shot, Big close up, | composition and aesthetic |
| Professional | Photography | Mid-long shot, Extreme long | approaches. Knowledge of still |
| Knowledge | techniques. | shot, Point of view (POV) | digital camera, Video camera |
| 18 Hrs | | shot, Over-the Shoulder (OSS) | and drone camera. (18 hrs) |
| | | shot, high angle and low | , , |
| | | angle shot, top angle shot. (30 | |
| | | Hrs) | |
| | | 49. Practice on Action Axis (180 | |
| | | degree rule); matching of | |
| | | action, Static and Dynamic | |
| | | Continuity, Reverse angle. (30 | |
| | | Hrs) | |
| | | 50. Operations and Camera | |
| | | movements Pan, tilt, trolley, | |
| | | dolly, crane, steady – cam and | |
| | | usage of other camera | |
| | | support. (30 Hrs) | |
| Professional | Apply Principles of | 51. Practice on basic principle of | Basic principle of light. (i) |
| Skill 30 Hrs; | Light, demonstrating | light. | Electromagnetic spectrum, |
| | the quality and | (i) Electromagnetic spectrum, | visible spectrum. (ii) Behaviour |
| Professional | types of lights. | visible spectrum. | of light falling on an object – |
| Knowledge | | (ii) Behaviour of light (Direct | absorption, reflection |
| 06 Hrs | | and Indirect) | refraction, transmission, |
| | | (iii) Inverse square law. | diffraction, dispersion, |
| | | (iv) Basic principles of color, | scattering of light, refractive |
| | | Color temperature, CIE | index. (iii) Inverse square law. |
| | | diagram, trichromatic | (iv) Basic principles of color, CIE |



| | | | theory of vision. (10 Hrs) | diagram, trichromatic theory of |
|---------------|---------------------|------------|----------------------------------|---------------------------------------------|
| | | 52. | Practice on quality of light: | vision. 2. (i) Quality of light: |
| | | | Specular, diffused and | Specular, diffused and bounced. |
| | | | bounced. (ii) Types of light: | (ii) Types of light: Natural day |
| | | | Natural day light, | light, Incandescent, (tungsten- |
| | | | Incandescent, (tungsten- | halogen, [Tenner (10K), Senior |
| | | | halogen, LED and PAR etc. | (5K), Junior (2K), Baby (1K), Inkie |
| | | | (10Hrs) | Multi 10, Multi 20 etc], |
| | | 53. | Practice on Low key and High | photoflood), fluorescent, (Kino |
| | | | key technique of lighting, use | Flo), Metal Halide enclosed AC |
| | | | of back light, kicker and | arc (HMI) etc. 3. Basic |
| | | | background light. Practice to | understanding of lighting ratio |
| | | | light up 2-point and 3-point | (key + fill : fill alone) use of back |
| | | | lighting in an indoor situation. | light, kicker and back ground |
| | | | Light source filters and gels | light. How to lit up an indoor |
| | | | for mixed lighting situation. (5 | situation. Use of light source |
| | | | Hrs) | filters. 4. Use of reflectors, and |
| | | 54. | Practice to use the reflectors, | soft boxes, mirrors, skimmers as |
| | | | mirrors, skimmers as fill light | fill light in an outdoor situation. |
| | | | in an outdoor situation. (5 | 5. Knowledge of symbols (icon) |
| | | | Hrs) | to identify the various lighting |
| | | | | equipments. (06 hrs) |
| Professional | Demonstrate the | 55 | Handling of digital video | Video & Video technology |
| Skill 90 Hrs; | Shooting techniques | 55. | camera and their accessories, | Introduction to Video, How |
| 3Km 30 1m3, | by using digital | | camera Movement – Pan – | Video camera works? Working |
| Professional | video camera with | | tilt-Zoom. Dimension of | principle of an image sensor, |
| Knowledge | pan-tilt-zoom and | | image. (25 Hrs) | Camera mounts and Camera |
| 18 Hrs | use of camcorder | 56 | Practice on some basic | support accessories. |
| 101113 | camera operating | 50. | camera do's and dont's | Composition. Use of video as a |
| | techniques. | | Before and after the shoot. | communication tool, latest |
| | teerinques. | | (25 Hrs) | video |
| | | E 7 | Practice on DSLR and video | technology, types of video |
| | | 57. | | |
| | | | camera. Assignment must be | cameras their Various formats and recording |
| | | | given at week end and | medium (tapes, disc and Hard |
| | | | monitored regularly. (25 Hrs) | , . |
| | | | | disc). |
| | | | | Applications of video recording. |
| | | | | (18 hrs) |



| Professional | Apply Audio | 58. | Practice on the concept of | Video and Audio productions. |
|----------------------------|-------------------------------|------------|---------------------------------------------------|---------------------------------------------------------|
| Skill 60 Hrs; | recording sound by | | audio video recording using | Knowledge of sound techniques. |
| | using different types | | External Microphone and Line | Use of different microphones, |
| Professional | of microphones. | | recording. (30 Hrs) | Mono, Stereo and Surround |
| Knowledge | Mixing, editing, | 59. | Practice on mixing, editing, | sound techniques. |
| 12 Hrs | dubbing and | | dubbing of sound. (30 Hrs) | Recording methods, Video tape |
| | sweetening of | | | recording insert, sound mixing, |
| | sound. | | | editing, audio dubbing etc. (12 |
| | | | | hrs) |
| Professional | Use of three point | 60. | Practice for Lighting of | Lighting for still & video |
| Skill 60 Hrs; | lighting for video | | different areas of video | photography. |
| | shooting in a studio | | shooting. (10 Hrs) | Knowledge of different types of |
| Professional | and selection of | 61. | Practice on three point | video lighting. Concept of power |
| Knowledge | shooting camera, | | lighting, indoor and outdoor | distribution depending upon the |
| 12 Hrs | studio lights | | lighting etc. (20 Hrs) | requirement of the light output. |
| | accessories for field | 62. | Practice on hard and soft | Detailed light source including |
| | lighting. | | lighting. Single camera | natural and studio lights |
| | | | lighting, bounce lighting. (20 | instruments, Field lighting |
| | | | Hrs) | instruments. Usage of Light |
| | | 63. | Use of reflectors & skimmer. | meter (Lux meter), Inter |
| Duefessional | Maka dagumantany | <i>C</i> 4 | (10 Hrs) | valometer. (12 hrs) |
| Professional Skill 90 Hrs; | Make documentary films, Shoot | 64. | Preparing Story board and Practice on shooting of | Shooting with Zoom function, macro function, High speed |
| 3KIII 90 FIIS, | interviews, news, | | different areas and topics | shutter function &Automatic |
| Professional | and make | | such as sports, wildlife, | and manual focus function. |
| Knowledge | advertisements etc. | | modelling, drama and | Identification of Location and |
| 18 Hrs | davertisements etc. | | documentary, serial. (60 Hrs) | proper placement of different |
| 10 15 | | 65. | Practice on shooting of news, | accessories. (18 hrs) |
| | | | interview, seminar/ | (==, |
| | | | workshop, industrial, live | |
| | | | broadcasting, musical event, | |
| | | | Advertisement, Architectural, | |
| | | | monuments, travel videos | |
| | | | and Landscapes. (30 Hrs) | |
| Professional | Work with post- | 66. | Practice on learning Video | Linear (Insert and assemble |
| Skill 120 Hrs; | production. | | Editing Process. Ingesting | modes) Editing equipment: Edit |
| | | | media (capturing and | VTR, Edit Control Unit, Vision |
| Professional | | | transferring). (10 Hrs) | Mixer, Computer Graphics (C.G.) |
| | | | | wince, compater drapines (c.d.) |



| transitions, Rearranging, adding and removing sections of video clips and audio clips. Applying colour correction, filters and other enhancements, Creating transitions between clips. (50 Hrs) music). Effects (visual audio) - Better understand technic editors use to construct storic knowledge of a non-ling editing software. | | | | Edit the story, Trim the story, | etc., Non-linear Recording of |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| technique and their utilisation for various types of production. (60 Hrs) Be able to do professional scolor correction. Know how to create in quality motion graphics. Understand video formats principles. Video editing Practice Different Audio & Vi Software's with Effect, Title frame cutting/ trimmediting/ inserting audio video/Pictures | 24 Hrs | | | Add music, titles and transitions, Rearranging, adding and removing sections of video clips and audio clips. Applying colour correction, filters and other enhancements, Creating transitions between clips. (50 Hrs) Non-Linear Video Editing technique and their utilisation for various types of | audio (commentary, dubbing, music). Effects (visual and audio) - Better understand techniques editors use to construct stories. - Have a thorough working knowledge of a non-linear editing software. Be able to do professional style color correction. - Know how to create high quality motion graphics. - Understand video formats and principles. Video editing Practice on Different Audio & Video Software's with Effect, Titling, frame cutting/ trimming/editing/ inserting audio & |
| Professional Apply the necessity 69. To do practice on getting idea Knowledge of planning | Professional | Apply the necessity | 69. | To do practice on getting idea | · · · · · · · · · · · · · · · · · · · |
| Skill 30 Hrs; of planning a and planning for production quality production, and qualities of a good ordinating with director du | | | | | quality production, co- ordinating with director during |
| production write | 5 6 | • | | , | production, objective to be |
| Working. | | | 70. | · | , , |
| 06 Hrs principle of direction during production. (06 hrs) | _ | | | principle of direction during | , - , |
| production, objective to be | | | | production, objective to be | • |
| coped with during pre- | | | | coped with during pre- | |
| production. (15 Hrs) | | | | production. (15 Hrs) | |



SYLLABUS FOR CORE SKILLS

1. Employability Skills (Common for all CTS trades) (160Hrs.)

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



List of Tools & Equipment

DIGITAL PHOTOGRAPHER (for batch of 24 Candidates)

| S No. | Name of the Tools and Equipment | Specification | Quantity |
|--------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------|
| A. TOO | DLS AND EQUIPMENT | | |
| 1. | Digital HD Video Camera | | 6 Nos. |
| 2. | Digital SLR Camera with standard accessories. | | 2 Nos. |
| 3. | Digital SLR Camera with detachable recorder | Latest model | 1 No. |
| 4. | 15" HD monitor, Electronic View finder | | 2 Nos. |
| 5. | Multimedia speaker | 2.1 | 2 sets |
| 6. | Prime lens (Normal/wide/telephoto),Macro | | 2 sets each |
| 7. | Dolly and gimbal | | 6 Nos. |
| 8. | Camcorder | | 4 Nos. |
| 9. | Zoom lens match able with Digital SLR camera | 28-70mm, 70-300mm | 1 each |
| 10. | Fish eye lens for APS-C and Full frame DSLR match able with Digital SLR camera | | 1 No. |
| 11. | Camera stand for still camera | | 2 Nos. |
| 12. | Camera stand for video | low base | 1 No. |
| 13. | Cable release | | 2 Nos. |
| 14. | Different types of filters, (10 types) match able with camera | UV filter Graduated, Star filter, multi image, ND, Skylight, polarizer, colour filter set, , both for video &still | 1 No. |
| 15. | Extension ring (4 types) | | 2 Nos. |
| 16. | Electronic flash gun (Manual & auto) Different types with slave unit | | 5 Nos. |
| 17. | Studio light/spot light | | 4 Nos. |
| 18. | Drone with accessories | | 1 Nos. |
| 19. | Umbrella soft box, Diffusers ,back drop screen with stands, Colour Gels, Scrim, 18 % Greycard | | 2 Nos. |
| 20. | Air conditioner for studio | | As Required |



| Studio room (30ft. x 30ft. x 18ft. height) fitting with cataract system, light grid, sound proof, AC, with cyclorama Studio & Classroom furniture 3) Steel chairs folding type with arm rest for trainees b) Working table molded Computer with LAN CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz 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. 25. Standalone DVD recorder 26. Inkjet printer with colour cartridge 27. Laser printer with colour cartridge 28. Scanner 1200 dpi or higher 1 No. 29. Or Offline UPS Or Offline UPS Or Offline UPS 30. Windows operating system 31. Photo editing software like Photoshop CS a etc. 32. MS-Office Iatest version 12 Licenses 33. Macro media Free Hand 34. Flash Iatest version 12 Licenses 35. Sound Forge/ cool edit pro Iatest version 12 Licenses 36. Digit Mix Iatest version 12 Licenses 37. Anti Virus software Iatest version 12 Licenses 38. Alobe premier 39. DVD writable Iatest version 11 Licenses 39. DVD writable Iatest capacity 48 Nos. 40. DVD Re-writable Iatest capacity 48 Nos. 49. Port adirive 49. Reflectors (Folding Portable) 10 Licenses 6 each 44. Reflectors (Folding Portable) | 21. | LUX Meter, Intervalo meter | | 2 Nos. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------|------------------------------------|-------------|
| Studio & Classroom furniture a) Steel chairs folding type with arm rest for trainees b) Working table molded Computer with LAN | | Studio room (30ft. x 30ft. x 18ft. | | 1 Room |
| light grid, sound proof, AC, with cyclorama Studio & Classroom furniture a) Steel chairs folding type with arm rest for trainees b) Working table molded Computer with LAN 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. 25. Standalone DVD recorder 26. Inkjet printer with colour cartridge 1200 dpi or higher 1 No. 27. Laser printer with colour cartridge 1200 dpi or higher 2 Nos. Online UPS or Offline UPS 30. Windows operating system latest version 12 Licenses 31. Photo editing software like Photoshop CS 3 etc. 32. MS-Office latest version 12 Licenses 33. Macro media Free Hand latest version 12 Licenses 34. Flash latest version 12 Licenses 35. Sound Forge/ cool edit pro latest version 12 Licenses 36. Digit Mix latest version 12 Licenses 37. Anti Virus software latest version 12 Licenses 38. Adobe premier available version 12 Licenses 39. DVD writable latest version 12 Licenses 39. DVD writable latest version 12 Licenses 39. DVD writable latest capacity 96 Nos. 40. DVD Re-writable lated of Each 40. DVD Re-writable 1 TB or higher 1 No. 41. Portable hard disk 1 TB or higher 6 Ros. 43. Multiple card reader | 22. | | | |
| Studio & Classroom furniture a) Steel chairs folding type with arm rest for trainees b) Working table molded Computer with LAN COMPUTER WITH LAN | | | | |
| a) Steel chairs folding type with arm rest for trainees b) Working table molded Computer with LAN 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. 25. Standalone DVD recorder 26. Inkjet printer with colour cartridge 1200 dpi or higher 1 No. 27. Laser printer with colour cartridge 1200 dpi or higher 2 Nos. Online UPS or Offline UPS or Offline UPS 30. Windows operating system latest version 12 Licenses 31. Photo editing software like Photoshop CS 3 etc. 32. MS-Office latest version 12 Licenses 33. Macro media Free Hand latest version 12 Licenses 34. Flash latest version 12 Licenses 35. Sound Forge/ cool edit pro latest version 12 Licenses 36. Digit Mix latest version 12 Licenses 37. Anti Virus software latest version 12 Licenses 38. Adobe premier available version 12 Licenses 39. DVD writable latest capacity 96 Nos. 40. DVD Re-writable latest capacity 48 Nos. 41. Portable hard disk 1 TB or higher 1 No. 14. Portable hard disk 1 TB or higher 1 No. 24 Nos. 25. Scander disk 1 TB or higher 1 No. 26 Each 1 Nos. 27. Mos. Tequired or 1 No. 28 Scander 2 Nos. 29 Portable hard disk 1 TB or higher 1 No. 29 Portable hard disk 1 TB or higher 1 No. 20 Portable hard disk 1 TB or higher 1 No. 20 Portable hard disk 1 TB or higher 1 No. 20 Portable hard disk 1 TB or higher 1 No. | | , | | |
| rest for trainees b) Working table molded Computer with LAN Computer | | | | 24 Nos |
| b) Working table molded Computer with LAN Compute | 23. | | | 24 NOS. |
| Computer with LAN CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. RAM:-4 GB DDR-III or Higher, With 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. 25. Standalone DVD recorder 26. Inkjet printer with colour cartridge 1200 dpi or higher 1 No. 27. Laser printer with colour cartridge 1200 dpi or higher 2 Nos. Online UPS or Offline UPS 30. Windows operating system latest version 12 Licenses 31. Photo editing software like Photoshop CS 3 etc. 32. MS-Office latest version 12 Licenses 33. Macro media Free Hand latest version 12 Licenses 34. Flash latest version 12 Licenses 35. Sound Forge/ cool edit pro latest version 12 Licenses 36. Digit Mix latest version 12 Licenses 37. Anti Virus software latest version 12 Licenses 38. Adobe premier available version 12 Licenses 39. DVD writable latest capacity 96 Nos. 40. DVD Re-writable latest capacity 48 Nos. 41. Portable hard disk 1 TB or higher 1 No. 42. Pen drive 8 GB, 16 GB 6 Nos. | | | | 24 Nos. |
| processor, Speed: 3 GHz or Higher. RANK: 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. 2 Nos. 2 Nos. 1 Inkjet printer with colour cartridge 1 200 dpi or higher 1 No. 2 Nos. 3 Canner 1 200 dpi or higher 1 No. 2 Nos. 3 Online UPS 3 Or Offline UPS 3 Or Offline UPS 4 Seanner 3 Photo editing software like Photoshop CS 3 etc. 3 Macro media Free Hand 3 latest version 1 Licenses 3 Macro media Free Hand 1 latest version 1 Licenses 3 Sound Forge/ cool edit pro 1 latest version 1 Licenses 3 Sound Forge/ cool edit pro 1 latest version 1 Licenses 3 Anti Virus software 1 latest version 1 Licenses 3 Anti Virus software 1 latest version 1 Licenses 3 Adobe premier 1 available version 1 Licenses 3 Adobe premier 1 No. 2 Nos. 2 Nos. 2 Nos. 4 Nos. 4 Nos. 4 Nos. 4 Nos. 4 Nos. 4 Pen drive 4 Ros. 4 Nos. 4 Nos. 4 Multiple card reader | | | CPU: 32/64 Bit i3/i5/i7 or latest | |
| 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. 25. Standalone DVD recorder 26. Inkjet printer with colour cartridge 1200 dpi or higher 1 No. 27. Laser printer with colour cartridge 1200 dpi or higher 2 Nos. 28. Scanner 1200 dpi or higher 2 Nos. 29. Online UPS or Offline UPS 30. Windows operating system latest version 12 Licenses 31. Photo editing software like Photoshop CS 3 etc. 32. MS-Office latest version 12 Licenses 33. Macro media Free Hand latest version 12 Licenses 34. Flash latest version 12 Licenses 35. Sound Forge/ cool edit pro latest version 12 Licenses 36. Digit Mix latest version 12 Licenses 37. Anti Virus software latest version 12 Licenses 38. Adobe premier available version 12 Licenses 39. DVD writable latest capacity 48 Nos. 40. DVD Re-writable latest capacity 48 Nos. 41. Portable hard disk 1TB or higher 1 No. 42. Pen drive 8 GB, 16 GB 6 Nos. | | · | 1 | |
| Comparison of the comparison | | | RAM:-4 GB DDR-III or Higher, Wi-Fi | |
| Keyboard and Monitor (Min. 17 Inch. Licensed Operating System and Antivirus compatible with trade related software. 2 Nos. | | | _ | |
| Licensed Operating System and Antivirus compatible with trade related software. 25. Standalone DVD recorder 26. Inkjet printer with colour cartridge 1200 dpi or higher 27. Laser printer with colour cartridge 1200 dpi or higher 28. Scanner 29. Online UPS 30. Windows operating system latest version 31. Photo editing software like Photoshop CS 3 etc. 32. MS-Office latest version 33. Macro media Free Hand latest version 34. Flash latest version 35. Sound Forge/ cool edit pro latest version 36. Digit Mix latest version 37. Anti Virus software 38. Adobe premier 39. DVD writable latest version 30. DVD Re-writable latest capacity 48 Nos. 41. Portable hard disk 47 TB or higher 48 GB, 16 GB 48 ONS. 49. Multiple card reader | 24. | | | |
| Antivirus compatible with trade related software. 25. Standalone DVD recorder 26. Inkjet printer with colour cartridge 1200 dpi or higher 27. Laser printer with colour cartridge 1200 dpi or higher 28. Scanner 29. Online UPS 29. Or Offline UPS 30. Windows operating system latest version 31. Photo editing software like Photoshop CS 3 etc. 32. MS-Office latest version 33. Macro media Free Hand latest version 34. Flash latest version 35. Sound Forge/ cool edit pro latest version 36. Digit Mix latest version 37. Anti Virus software latest version 38. Adobe premier available version 39. DVD writable latest capacity 48 Nos. 40. DVD Re-writable latest description 42 Nos. 43. Multiple card reader 4 Nos. 44. Portable hard disk 4 TB or higher 4 Nos. 44. Portable hard disk 4 TB or higher 4 Nos. 44. Multiple card reader | | | , | |
| Software. Software. Software. Software. Standalone DVD recorder 2 Nos. | | | | |
| 25.Standalone DVD recorder2 Nos.26.Inkjet printer with colour cartridge1200 dpi or higher1 No.27.Laser printer with colour cartridge1200 dpi or higher1 No.28.Scanner1200 dpi or higher2 Nos.29.Online UPS or Offline UPSAs required30.Windows operating systemlatest version12 Licenses31.Photo editing software like Photoshop CS 3 etc.As required32.MS-Officelatest version12 Licenses33.Macro media Free Handlatest version12 Licenses34.Flashlatest version12 Licenses35.Sound Forge/ cool edit prolatest version12 Licenses36.Digit Mixlatest version12 Licenses37.Anti Virus softwarelatest version12 Licenses38.Adobe premieravailable version12 Licenses39.DVD writablelatest capacity96 Nos.40.DVD Re-writablelatest capacity48 Nos.41.Portable hard disk1 TB or higher1 No.42.Pen drive8 GB, 16 GB6 Nos.43.Multiple card reader6 each | | | · · | |
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| 42.Pen drive8 GB, 16 GB6 Nos.43.Multiple card reader6 each | 40. | DVD Re-writable | latest capacity | 48 Nos. |
| 43. Multiple card reader 6 each | 41. | Portable hard disk | 1 TB or higher | 1 No. |
| · | 42. | Pen drive | 8 GB, 16 GB | 6 Nos. |
| 44. Reflectors (Folding Portable) 12 Nos. | 43. | Multiple card reader | | 6 each |
| | 44. | Reflectors (Folding Portable) | | 12 Nos. |

| 45. | Cool light | | 12 Nos. |
|-------|----------------------------------------------------------------------------------------------------------------------|---------|--------------|
| 46. | Multi 10 & Multi 20 | | 12 Nos. |
| 47. | Sun Gun | | 7 Nos. |
| 48. | Porto pack light | | 3 Sets |
| 49. | Tape match able with the camera | | As required |
| 50. | Slide & film high resolution scanner with adapter for A3 | | 1 No. |
| 51. | Slide & film high resolution scanner with adapter for A4 | | 1 No. |
| 52. | DV VTR according to digital camera | | 1 No. |
| 53. | DV VTR with play back adapter for camcorder | | 1 No. |
| 54. | Play back adapter for video camera | | 1 No. |
| 55. | Battery for digital video camera | | 1 No. |
| 56. | Microphone (boom) | | 2 Nos. |
| 57. | Microphone (lapel) | | 1 No. |
| 58. | Trolley set | 30 ft. | 1 No. |
| 59. | Round trolley | 30 ft. | 1 No. |
| 60. | Power Cable | | As required |
| 61. | Extension Board | | As required |
| 62. | BNC cable with various connectors | 80 ohms | As required |
| 63. | Steel almirah | | 2 Nos. |
| 64. | Pigeon hole steel almirah | | 1 No. |
| 65. | Fire extinguisher | | 4 Nos. |
| 66. | LCD Projector latest | | 1 No. |
| B. SF | OP FLOOR FURNITURE AND MATERIAL | LS | |
| 67. | Steel almirah | | 2 Nos. |
| 68. | Pigeon hole steel almirah | | 1 No. |
| 69. | Table for computer | | 12 Nos. |
| 70. | Chairs for computer classes | | 24 Nos. |
| 71. | Table printer and scanner | | 4 Nos. |
| 72. | Studio room (30ft. x 30ft. x 18ft. height) fitting with cataract system, light grid, sound proof, AC, with cyclorama | | 1 Room |
| 73. | Studio & Classroom furniture a) Steel chairs folding type with arm rest for trainees | | 24 Nos. |
| | b) Working table molded | | 24 Nos. |
| 74. | Instructor Chair and instructor Table | | Each One No. |



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 contributed/ participated for finalizing the course curriculum of Digital Photographer held on 08.02.2018 at FTI, Bangalore

| Digital Photographer held on 08.02.2018 at FII, Bangalore | | | |
|-----------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------|----------|
| S No. | Name & Designation Sh/Mr./Ms. | Organization | Remarks |
| 1. | Shri B. V. S. Sesha Chari, Director | CSTARI, Kolkata | Chairman |
| 2. | Shri N.R. Arvindan, Director | FTI, Bangalore | Member |
| 3. | Shri V. Sukumaran, Chief Cameraman | Films Division, Govt. of India, Kendriya Sadan, Bangalore | Expert |
| 4. | Shri Mahendar, Director of Photography | Ryan International School, Bangalore | Expert |
| 5. | Shri G. Palani, Cameraman | Doordarshan, Bangalore | Expert |
| 6. | Shri R. K. Narendra Kumar, Chief | Ahobila Photography, Bangalore | Expert |
| 7. | Shri Prakash Y.D. , Cameraman | Photo Care, Bangalore | Expert |
| 8. | Shri Chandra Prabhu, Cameraman/Film Editor | Viedo Came, Bangalore | Expert |
| 9. | Smt. Malathi M., J.T.O. | Govt. I.T.I., Tumkur Road, Bangalore-22 | Member |
| 10. | Shri Rajendra C., DOP. Film & Media | DOP Freelancer, Bangalore-104 | Expert |
| 11. | Shri Vijaya Kumar R., Principal | Govt. Film & TV Institute, Heseraghata, Bangalore | Expert |
| 12. | Prof. Hitesh Liya | SRFTI, Kolkata | Member |
| 13. | Shri Utpal Moitra | Cameraman Grade1, DDK, Golf Green, Kolkata. | Member |
| 14. | Shri Sanjay Khanande | Photographer cum Projectionist, FTI, Bangalore | Expert |
| 15. | Shri V,Babu, DDT | Apex-Hitech, Bangalore | Member |
| 16. | Shri R.C. Mandal, DDT | CSTARI, Kolkata | Member |
| 17. | Shri P.K. Ghosh, Sr, D'man | 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 |



