



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

COMPETENCY BASED CURRICULUM

VIDEO CAMERAMAN

(Duration: One Year)

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL: 3.5



SECTOR – MEDIA AND ENTERTAINMENT

CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE

Kolkata-700091

VIDEO CAMERAMAN

(Non-Engineering Trade)

(Revised in August 2025)

Version: 3.0

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NSQF LEVEL: 3.5



Developed By

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1. COURSE INFORMATION

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

During 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 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 Videos, 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 four 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. TRAINING SYSTEM

2.1 GENERAL

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

‘Video Cameraman’ 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. The Domain area (Trade Theory & Practical) imparts 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 videos, 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 Video Cameraman and will progress further as Senior Video Cameraman, 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 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)	840
2.	Professional Knowledge (Trade Theory)	240
3.	Employability Skills	120
Total		1200
On the Job Training (OJT) / Group Project*		150
Optional Courses **		240
Grand Total		1590

** The trainee has to undergo 150 hours of mandatory OJT (On the Job Training) at nearby industry or wherever industry not available then group project has to be done with the supervision of the trade instructor for every year.*

*** Trainees of one-year or two-year trade can also opt for optional courses of up to 240 hours in each year for obtaining 10th/ 12th class certificate from NIOS along with ITI certification, or, short term courses for extra skills/knowledge.*

2.4 ASSESSMENT & CERTIFICATION

The trainee will be tested for his/ her 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.cstaricalcutta.gov.in or www.bharatskills.gov.in

b) The final assessment will be in the form of summative assessment method. The All India Trade Test for awarding NTC will be conducted by **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 percentage for Trade Practical and Formative assessment are 60% & for all other subjects is 33%.

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 Occupational Safety, Health and Environment (OSHE) and self-learning attitude are to be considered while assessing competency.

Assessment will be evidence based comprising some of 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
- Computer based multiple choice question examination
- Practical Examination

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 for formative assessment:

Marks Allotted during Assessment	Performance Level	Evidence
Marks between 60% to 75%	For performance in this grade, the candidate should produce work which demonstrates attainment of an acceptable standard of craftsmanship with occasional guidance, and due regard for safety procedures and practices.	• Demonstration of good skill in the use of hand tools, machine tools and workshop equipment. • 60-70% accuracy achieved while undertaking different work with those demanded by the component/job. • A fairly good level of neatness and consistency in the finish. • Occasional support in completing the project/job.
Marks above 75% to 90%	For this grade, a candidate should produce work which demonstrates attainment of a reasonable standard of craftsmanship, with little guidance, and regard for safety procedures and practices.	• Good skill levels in the use of hand tools, machine tools and workshop equipment. • 70-80% accuracy achieved while undertaking different work with those demanded by the component/job. • A good level of neatness and consistency in the finish. • Little support in completing the project/job.
Marks Above 90%	For performance in this grade, the candidate, with minimal or no support in organization and execution and with due regard for safety procedures and practices, has produced work which demonstrates attainment of a high standard of craftsmanship.	• High skill levels in the use of hand tools, machine tools and workshop equipment. • Above 80% accuracy achieved while undertaking different work with those demanded by the component/job. • A high level of neatness and consistency in the finish. • Minimal or no support in completing the project.

3. JOB ROLE

Brief Description of Job Roles:

Cinematographer; Cameraman, Motion Picture, photographs persons, scenes and places with motion picture camera for production of feature films. Receives instructions from Producer, Motion Picture as to type and photographic effect desired on scenes to be filmed. Directs loading of camera with reel of film. Positions or supervises setting up of camera by assistant; focuses and sets camera on scene or object to be shot; controls lighting for desired general detail of scene to be photographed; hooks up motor on camera at starting signal of process films. May enlarge prints. May attend to minor repair to cine cameras. May be designated as Television Cameraman if engaged in television studio.

Movie Cameraman; Cine Cameraman photographs persons, places and events with movie camera (cine) for purposes other than production of feature films. Loads cine camera with film either coloured or black and white as required. Visits place of interest, event or assembly. Holds or places camera at desired angle and distance from subject to be photographed; adjusts lens, aperture, depending on type of subject and lighting condition or arranges artificial light for better effect; focuses camera lens or lenses to subject holding his eye close to view finder or looking through film with eye-piece and exposes certain length of film by pressing lever to run motor inside camera. Alters angle or distance of shot as required. Unloads camera when film is exposed and sends film for developing. Views processed film against light and cuts and trims films to make desired strip of subject. Projects or exhibits film on screen using projector to explain events function, for audience. May develop and Sound Recording Equipment Operator operates electronic equipment which records sound in pulses on composition discs or on reels of tape, wire or film for such uses as film and gramophone record production and radio broadcasting. Places microphones in position and connects them to recording equipment. Places blank discs or reels of tape, wire or film in machine. Sets volume and tone controls and makes other adjustments as necessary. Starts machine, watches its operation closely and listens, by means of headphones or loudspeaker, to sound being recorded. Manipulates controls during operation as required. May perform minor repairs.

Cameraman (Animation); operates special camera to make animated cartoon motion picture film. Discusses with Director and Producer, (Film) and renders advice about camera movements and feasibility of variety of shot; envisages in script and chart and suggests alternatives wherever necessary. Receives animation charts and drawings. Sets and adjusts camera and lighting exposure appropriate to type of film used and mood and effect to be emphasized. Installs frame on camera table for exposure and positions overhead camera suspended securely over frame. Shoots frame by frame in a predetermined sequence and regulates exposure and aperture to obtain special effect such as fade out or fade in. Instructs Laboratory Technicians about method of processing of films, which need special treatment for effective development of striking feature of certain shots.

Cinematograph Operator; Cinema Projectionist; Cinema Operator, Cine Projectionist sets and operates motion-picture projector with sound-reproducing projector with sound-reproducing

equipment on screen and attends to their equipment. May operate tape recorder or record player. May repair sound-amplifying equipment.

Reference NCO-2015:

- (i) 3521.0100 – Cinematographer
- (ii) 3521.0200 – Movie Cameraman
- (iii) 3521.0300 –Cameraman, Animation
- (iv) 3521.0900 – Cinematograph operator

Reference NOS:

- (i) MES/N9419
- (ii) MES/N9411
- (iii) MES/N9420
- (iv) MES/N9421
- (v) MES/N9422
- (vi) MES/N9423
- (vii) MES/N9401
- (viii) MES/N9409
- (ix) MES/N9402
- (x) MES/N9424
- (xi) MES/N9425
- (xii) MES/N9426
- (xiii) MES/N9414
- (xiv) MES/N9403
- (xv) MES/N9404
- (xvi) MES/N9405
- (xvii) MES/N9418

4. GENERAL INFORMATION

Name of the Trade	VIDEO CAMERAMAN
Trade Code	DGT/1122
NCO – 2015	3521.0100, 3521.0200, 3521.0300, 3521.0900
NOS Covered	MES/N9419, MES/N9411, MES/N9420, MES/N9421, MES/N9422, MES/N9423, MES/N9401, MES/N9409, MES/N9402, MES/N9424, MES/N9425, MES/N9426, MES/N9414, MES/N9403, MES/N9404, MES/N9405, MES/N9418
NSQF Level	Level: 3.5
Duration of Trade	One Year
Entry Qualification	Passed 10 th class examination or its equivalent.
Minimum Age	14 years as on first day of academic session.
Eligibility for PwD	LD, CP, LC, DW, AA, DEAF, HH, AUTISM
Unit Strength (No. of Student)	24 (There is no separate provision of supernumerary seats)
Space Norms	96 sq. m
Power Norms	12 KW
Instructors Qualification for:	
(i) Video Cameraman Trade	B.Voc/Degree in Cinematography/ Videography from with one year of teaching or industry experience in the Cinematography/ Videography field. OR Diploma (Minimum 2 years) in Cinematography/ Videography from recognized board or relevant Advanced Diploma (Vocational) from DGT with two years of teaching or industry experience in the Cinematography/ Videography. OR NAC/NTC passed in the trade of Video Cameraman with three years' of teaching or industry experience in the Cinematography/ Videography field. Essential Qualification: Regular/RPL variants of National Craft Instructor Certificate (NCIC) in Video Cameraman from DGT. NOTE: Out of two Instructors required for the unit of 2(1+1), one must have Degree/Diploma and other must have NTC/NAC qualifications.

(ii) Employability Skill	MBA/ BBA / Any Graduate/ Diploma in any discipline with Two years' of teaching or industry experience with short term ToT Course in Employability Skills conducted by DGT institutions. (Must have studied English/ Communication Skills and Basic Computer at 12th / Diploma level and above) OR Existing Social Studies Instructors in ITIs with short term ToT Course in Employability Skills conducted by DGT institutions.
(iii) Minimum Age for Instructor	21 Years
List of Tools and Equipment	As per Annexure – I

5. LEARNING OUTCOME

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

5.1 LEARNING OUTCOMES:

Sl. No.	NOS CODE	Learning Outcome	Duration		
			Practical	Theory	Total
1.	MES/N9419	Apply the uses of Lenses following safety precautions.	46	14	60
2.	MES/N9411	Work with the application of various types of lights. Apply different Lighting techniques, taking indoor and outdoor photographs and use of special areas of photography. Work with different Types of object lighting: Daylight, Artificial light and their combination.	23	07	30
3.	MES/N9420	Apply Computer Fundamentals Monitor Calibration, Interfaces.	46	14	60
4.	MES/N9421	Apply the process of motion pictures.	23	07	30
5.	MES/N9422	Work with the basic theory concepts, principles and techniques of motion camera/video camera.	23	07	30
6.	MES/N9423	Work with the fundamentals of camera shots taking techniques and mise-en-scene.	23	07	30
7.	MES/N9401	Apply basic visual aesthetics.	23	07	30
8.	MES/N9409	Apply shooting in different lighting situations.	46	14	60
9.	MES/N9411	Demonstrate Videography Lighting in different lighting conditions.	83	22	105
10.	MES/N9402	Work with visual aesthetics and art appreciation.	46	14	60
11.	MES/N9424	Work with different kinds of colours in cinematography.	59	16	75
12.	MES/N9425	Work with editing and video post-processing software, colour correction, grading.	59	16	75
13.	MES/N9426	Work with different shooting techniques with a DSLR camera.	83	22	105
14.	MES/N9414	Demonstrate Shooting of video with audio by using different micro phones & use of	59	16	75

		editing & mixing of sound.			
15.	MES/N9403	Work with Multi-camera setup.	46	14	60
16.	MES/N9404	Demonstrate the Shooting an interior event on multi-camera setup in a studio.	46	14	60
17.	MES/N9405	Demonstrate the Shooting of an uncontrolled event on multi-camera setup.	23	07	30
18.	MES/N9418	Apply and work with the production and planning of a documentary film.	83	22	105
Employability Skills				120	120
Grand Total			840	360	1200

6. ASSESSMENT CRITERIA

LEARNING OUTCOMES	ASSESSMENT CRITERIA
1. Apply the uses of Lenses following safety precautions. (NOS: MES/N9419)	- Identify different types of lenses for different types of cameras. - Use the lenses with wide angle, Normal, telephoto and zoom range and practice taking pictures at different focal lengths and group discussion on them.
2. Work with the application of various types of lights. Apply different Lighting techniques, taking indoor and outdoor photographs and use of special areas of photography. Work with different Types of object lighting: Daylight, Artificial light and their combination. (NOS: MES/N9411)	- Demonstrate different types of composition using various lighting techniques. - Take photographs by varying aperture, shutter speed and use of different types of lenses. - Take photographs in outdoor and Indoor conditions by the use of Digital camera. - Take photographs on different locations/ lighting situations.
3. Apply Computer Fundamentals Monitor Calibration, Interfaces. (NOS: MES/N9420)	- Work with multimedia platform for internet and its functions. - Work on operating software with accessories and configuration of multimedia PC with other application software, Monitor Calibration.
4. Apply the process of motion pictures. (NOS: MES/N9421)	- Work with digital video cameras on tripod, tape, 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-for-night Videography. - Demonstrate operations of various camera movements.
5. Work with the basic theory concepts, principles and techniques of motion camera/video camera. (NOS: MES/N9422)	- Handle video camera and other professional updated video camera. - Working on technical function of various cameras.

6. Work with the fundamentals of camera shots taking techniques and mise-en-scene. (NOS: MES/N9423)	• Explain 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. • Work on Action Axis (180-degree rule); matching of action, Static and Dynamic Continuity, Reverse angle. • Perform operations of Camera movements Pan, tilt, dolly, crane, steady – cam and usage of other camera support.
7. Apply basic visual aesthetics. (NOS: MES/N9401)	• Explain various kinds of lights, natural, artificial, observation of various lighting situations and practicing taking shots in different lighting conditions.
8. Apply shooting in different lighting situations. (NOS: MES/N9409)	• Pre-visualization of exposure based on zone system. • Shooting with different lights in studio by creating different exposure zones. • Explain zone system and exposure in natural light. • Shooting different scenes at various times of day.
9. Demonstrate Videography Lighting in different lighting conditions. (NOS: MES/N9411)	• Explain basic principle of light. (i) Electromagnetic spectrum, visible spectrum. (ii) Behaviour of light (Direct and Indirect) (iii) Inverse square law. (iv) Basic principles of colour, Colour temperature. • Explain 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.
10. Work with visual aesthetics and art appreciation. (NOS: MES/N9402)	• Working on studio lighting, portrait, 3-point lighting and creation of mood.
11. Work with different kinds of colours in cinematography. (NOS: MES/N9424)	• Shooting a scene with the importance of colour. • Explain use of colours for creating different moods, feelings etc. • Explain the colour of natural light at various times of a day. • Use colour filters on studio lights and camera lenses.

12. Work with editing and video post-processing software, colour correction, grading. (NOS: MES/N9425)	• Work on editing software and image post processing software. • Use basic editing techniques. • Demonstrate import and ingest video clips into the computer. • Perform basic colour correction and post processing of the images.
13. Work with different shooting techniques with a DSLR camera. (NOS: MES/N9426)	• Handle DSLR camera and their accessories, camera movement – Pan – tilt- zoom. Dimension of image. • Explain basic camera do's and "don'ts before and after the shoot. • Work on DSLR and video camera. Assignment must be given at the end of every week and monitor the same.
14. Demonstrate Shooting of video with audio by using different micro phones & use of editing & mixing of sound. (NOS: MES/N9414)	• Explain the concept of audio video recording using External Microphone, boom, lapel, on camera microphone and Line recording. • Shooting a sequence with sound recording. • Work on mixing editing of sound.
15. Work with Multi-camera setup. (NOS: MES/N9403)	• Place three cameras in a studio and understanding the basic multicam set up.
16. Demonstrate the Shooting an interior event on multi-camera setup in a studio. (NOS: MES/N9404)	• Perform Studio lighting for multi camera set-up scenarios. Interviews, Panel discussions, debates etc. • Perform shooting an interior event with multi cameras e.g., fashion shoot, musical show.
17. Demonstrate the Shooting of an uncontrolled events on multi-camera setup. (NOS: MES/N9405)	• Demonstrate multi camera shooting in uncontrolled real-life situations. Going outdoors in a group and shooting an event with different cameras.
18. Apply and work with the production and planning of a documentary film. (NOS: MES/N9418)	• Make a film of your idea with planning, writing, location recce, story boarding, budgeting, scheduling, etc.

7. TRADE SYLLABUS

SYLLABUS FOR VIDEO CAMERAMAN TRADE			
DURATION: ONE YEAR			
Duration	Reference Learning Outcome	Professional Skills (Trade Practical)	Professional Knowledge (Trade Theory)
Professional Skill 46 Hrs.; Professional Knowledge 14 Hrs.	1. Apply the uses of Lenses following safety precautions.	1. Identification of basic first aid devices and use them in different circumstances. 2. Identification of different fire Extinguishers and its use as per requirement and also the use of safety alarms. 3. Identify and observe evacuation procedure according to site policy. 4. Identify different types of Analog and digital cameras and its different parts. 5. Identify different types of lenses for different types of cameras. 6. Use the lenses with wide angle, Normal, telephoto and zoom range and practice taking pictures at different focal lengths and group discussion on them.	Importance of safety and general precautions. Observed in the trade by the Institution. Care & maintenance of equipment & material. Introduction to photography and its applications. Introduction to Cameras & it's History. Understanding the aspect of video cameraman. Types of Lenses- Four basic types of lenses, they are: •Normal •Wide angle •Telephoto •Zoom, fish eye and macro Introduction to Focal length. Depth-of-field. Depth of focus. Perspective, aberrations of Lens.
Professional Skill 23 Hrs.; Professional Knowledge 07 Hrs.	2. Work with the application of various types of lights. Apply different Lighting techniques, taking indoor and outdoor photographs and use of special areas of photography.	7. Practice on different types of composition using various lighting techniques. 8. Practice on taking photographs by varying aperture, shutter speed and ISO, Kelvin temperature, use of different types of lenses. 9. Practice of taking photographs in outdoor and Indoor conditions by the use of Digital camera.	Exposure, Colour temperature & colour balance. Conception of aperture, shutter speed, ISO. Knowledge of Pixels & their uses. Use of lens hood, tripod and modes.

	Work with different Types of object lighting: Daylight, Artificial light and their combination.	10. Practice of taking photographs on different locations/ lighting situations.	
Professional Skill 46 Hrs.; Professional Knowledge 14 Hrs.	3. Apply Computer Fundamentals Monitor Calibration, Interfaces.	11. Practice on multimedia platform for internet and its functions. 12. Practice on operating software with accessories and configuration of multimedia PC with other application software, Monitor Calibration.	Basics of Computers, OS, RAM, ROM and Graphic cards, Concept of operating software, functions and its uses. Basics of Internet, different image editing software & its application. Multimedia platform, accessories and configuration of multimedia PC.
Professional Skill 23 Hrs.; Professional Knowledge 07 Hrs.	4. Apply the process of motion pictures.	13. Practice with digital video cameras on tripod, Camcorder, Monitor. 14. Set up a single camera unit: Black balance, grey balance and White balance, Adjustment of viewfinder and monitor, Familiarization of in- camera filters and other in-camera controls, Day-for-night Videography. 15. Operational practice of various camera movements.	Persistence of Vision, Understanding how motion picture cameras work. History of cinematography
Professional Skill 23 Hrs.; Professional Knowledge 07 Hrs..	5. Work with the basic theory concepts, principles and techniques of motion camera/video camera.	16. Handling of video camera and other professional updated video camera. 17. Working on technical function of various cameras.	Basic theory of image formation in a video camera. Understanding 3CCD technology, various type of sensors. Fundamental of celluloid medium, latent image formation, development and processing. Knowledge about different

			type of film and film speed.
Professional Skill 23 Hrs.; Professional Knowledge 07 Hrs.	6. Work with the fundamentals of camera shots taking techniques and mise-en-scene.	18. Practice on 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. 19. Practice on Action Axis (180-degree rule); matching of action, Static and Dynamic Continuity, Reverse angle. 20. Operations of Camera movements Pan, tilt, dolly, tracking, pedestal, crane, steady – cam and usage of other camera support.	Understanding basics of composition, movement, visual balance, continuity, axis matching, mise-en-scene.
Professional Skill 23 Hrs.; Professional Knowledge 07 Hrs.	7. Apply basic visual aesthetics.	21. Introduction to various kinds of lights, natural, artificial, observation of various lighting situations and practicing taking shots in different lighting conditions.	Understanding visual communication and aesthetics in Photography. ('rule' of photographic composition), Theory of light and sources.
Professional Skill 46 Hrs.; Professional Knowledge 14 Hrs.	8. Apply shooting in different lighting situations.	22. Pre-visualization of exposure based on zone system. 23. Shooting with different lights in studio by creating different exposure zones. 24. Practicing zone system and exposure in natural light. 25. Shooting different scenes at various times of day.	Principles of light, photometry, measurement of light with light meters, fundamental of exposure, F-stop, T-stop, characteristic curve of various sensors. Zone system, 18% grey card.
Professional Skill 83 Hrs.; Professional Knowledge 22 Hrs.	9. Demonstrate Videography Lighting in different lighting conditions.	26. Practice on basic principle of light. (i) Electromagnetic spectrum, visible spectrum. (ii) Behaviour of light (Direct and Indirect) (iii) Inverse square law. (iv) Basic principles of colour, Colour temperature. 27. Practice on quality of light: Specular, diffused and	Basic principle of light. (i) Electromagnetic spectrum, visible spectrum. (ii) Behaviour of light falling on an object – absorption, reflection refraction, transmission, diffraction, dispersion, scattering of light, refractive index. (iii) Inverse square law. (iv)

		bounced. (ii) Types of light: Natural day light, continuous light (2700 K to 5600 K) Incandescent, (tungsten-halogen, LED and PAR etc. 28. Practice 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. 29. Practice to use the reflectors, mirrors, skimmers as fill light in an outdoor situation.	Basic principles of color, 2. (i) Quality of light: Specular, diffused and bounced. (ii) Types of light: Natural day light, Incandescent, (tungsten-halogen, [Tanner (10K), Senior (5K), Junior (2K), Baby (1K), Inkie Multi 10, Multi 20 etc.] (photoflood), fluorescent, (Kino Flo), Metal Halide enclosed AC arc (HMI) etc. 3. Basic understanding of lighting ratio (key + fill: fill alone) use of back light, kicker and back ground light. How to lit up an indoor situation. Use of light source filters. 4. Use of reflectors, and soft boxes, mirrors, skimmers as fill light in an outdoor situation. 5. Knowledge of symbols (icon) to identify the various lighting equipment. 6. Use of correction filters.
Professional Skill 46 Hrs.; Professional Knowledge 14 Hrs.	10. Work with visual aesthetics and art appreciation	30. Working on studio lighting, portrait, 3-point lighting, creation of mood.	Art appreciation, visual aesthetics, study of paintings, cinematographers' works, understanding basic principles of composition, lighting, Chiaroscuro, creation of mood etc.
Professional Skill 59 Hrs.; Professional Knowledge 16 Hrs.	11. Work with different kinds of colours in cinematography .	31. Shooting a scene with the importance of colour. 32. Understanding use of colours for creating different moods, feelings etc. 33. Studying the colour of natural light at various times of a day.	Basic principles of color, CIE diagram, trichromatic theory of vision.

		34. Using color filters on studio lights and camera lenses.	
Professional Skill 59 Hrs.; Professional Knowledge 16 Hrs.	12. Work with editing and video post-processing software, colour correction, grading.	35. Learning editing software and image post processing software. 36. Using basic editing techniques. 37. Learning how to import and ingest video clips into the computer. 38. Doing basic colour correction and post processing of the images and Log Profile.	Joining the shots and scenes. The cut and types of cuts. The imaginary lines, basic moments and other transitions i.e., fade, mix, etc. Understanding fundamentals of color theory, additive and subtractive color, white balance etc.
Professional Skill 83 Hrs.; Professional Knowledge 22 Hrs.	13. Work with different shooting techniques with a DSLR camera.	39. Handling of DSLR camera and their accessories, camera movement – Pan – tilt- zoom. Dimension of image. 40. Practice on some basic camera dos and don'ts before and after the shoot. 41. Practice on DSLR and video camera.	Introduction to DSLR cameras technology. Working principle of an image sensor, shutter, aspect ratios, resolution, SD, HD, UHD. Understanding Gamma, contrast and dynamic range. Understanding compression and types of file formats.
Professional Skill 59 Hrs.; Professional Knowledge 16 Hrs.	14. Demonstrate Shooting of video with audio by using different micro phones & use of editing & missing of sound.	42. Practice on the concept of audio video recording using External Microphone, boom, lapel, on camera microphone and Line recording. 43. Shooting a sequence with sound recording. 44. Practice on mixing editing of sound.	Video and Audio productions. Knowledge of sound techniques. Use of different microphones, Mono, Stereo and Surround sound techniques. Recording methods, sound mixing, editing.
Professional Skill 46Hrs.; Professional Knowledge 14 Hrs.	15. Work with Multi-camera setup.	45. Placing of three cameras in a studio and understanding the basic multicam set up.	Understanding placement of multiple cameras and their shots Basic editing knowledge for different types of shoots e.g., sports, wedding, fashion show.
Professional Skill 46 Hrs.;	16. Demonstrate the Shooting an	46. Studio lighting for multi camera set-up scenarios.	TV studio program shoot. 2/3-point discussion.

Professional Knowledge 14 Hrs.	interior event on multi-camera setup in a studio.	Interviews, Panel discussions, debates, etc. 47. Shooting an interior event with multi cameras e.g., fashion shoot, musical show.	Musical program, dance, drama, live show, events involving VVIPs, Outdoor multi-camera shoot (LIVE recording), Sports. Understanding the importance of matching shots/ comparing shots by seeing the return.
Professional Skill 23Hrs.; Professional Knowledge 07 Hrs.	17. Demonstrate the Shooting of an uncontrolled events on multi-camera setup.	48. Multi camera shooting in uncontrolled real-life situations. Going outdoors in a group and shooting an event with different cameras.	News coverage. Ethics of coverage. What are the events covered in News? Disaster coverage, defense coverage, cultural events, elections etc. Types of shots required to establish the event. Green Background video-graphy (Chroma shoot)/ virtual set shooting. Robotic camera/ PTZ cameras.
Professional Skill 83Hrs.; Professional Knowledge 22 Hrs.	18. Apply and work with the production and planning of a documentary film	49. Make a film of your idea with planning, writing, location recce, story boarding, budgeting, scheduling, etc.	Understanding documentary films, types of documentary films, ethnographic, observational, experimental, personal. Cinema-verite principle. Viewing of documentary films and discussion.

SYLLABUS FOR CORE SKILLS
1. Employability Skills (Common for all CTS trades) (120 Hrs.)

Learning outcomes, assessment criteria, syllabus and Tool List of Employability Skills is provided separately in www.cstaricalcutta.gov.in / www.bharatskills.gov.in / www.dgt.gov.in.

List of Tools & Equipment			
VIDEO CAMERAMAN (For batch of 24 Candidates)			
S No.	Name of the Tools and Equipment	Specification	Quantity
1.	Digital SLR/ mirror less Camera and other accessories (latest version)		6 Nos.
2.	Camcorder and other accessories		1 no.
3.	Block Lens set	16mm, 24mm, 35mm, 50mm, 85mm	6 sets each
4.	Telephoto lens compatible with Digital SLR camera (Full HD)/ mirror less	24-70mm, 70-200mm	3 each
5.	Fish eye lens for APS-C and Full frame	10 mm	1 No.
6.	Camera tripod		7 nos.
7.	Wireless Video Transmitter		02 nos.
8.	Continuous light	(2700 K to 5600 K)	6 nos.
9.	Colour filters (ND & CPL)	set of 4 different shades.	1 set.
10.	Grey scale-Reflection & Transmission type	set of 4different shades	1 set.
11.	Air conditioner		As required
12.	Fire Extinguisher	Arrange all proper NOCs and equipment from Municipal/Competent authorities.	
13.	Desktop computer	CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. RAM: - 8 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.	12 Nos.
14.	Monitor with True color	27"	1 no.
15.	Ink jet printer and laser jet printer with color cartridge	1200 dpi or higher	2 Nos. each.
16.	Studio room with cataract system, light grid, sound proof, AC with cyclorama	30ft X 30ft X 15ft height	1 NO.
17.	Window operating system	latest version	12 Licenses
18.	Free hand	latest version	1 No.
19.	Video editing software	latest version	1 No.
20.	Special effects software	Preferably AI enabled	1 No.

21.	Office software	latest version	As per requirement
22.	Sound editing software	latest version	1 No.
23.	Digi mix latest version		1 No.
24.	Table for computer, printer and scanner		12 Nos.
25.	Computer chair		24 Nos.
26.	Studio and class room furniture: Steel chair folding type with arm rest		24 Nos.
27.	Working table		24 Nos.
28.	LUX Meter, Intervalo meter		2 Nos.
29.	Laser printer with colour cartridge (1200 dpi or higher)		1 No.
30.	Online UPS or Offline UPS		As required
31.	Anti-Virus software	latest version	12 Licenses
32.	Chairs for computer classes		24 Nos.
33.	Pen drive	128 GB or higher	5 Nos.
34.	Multiple card reader		5 each.
35.	High speed SD memory card	250 mbps or higher	5 Nos.
36.	Reflectors (Folding Portable)		8 Nos.
37.	Cool light		8 Nos.
38.	Multi 10 & Multi 20		8 Nos.
39.	Porto pack light		3 Sets
40.	Trolley set	30 ft.	1 No.
41.	Round trolley	30 ft.	1 No.
42.	Power Cable		As required
43.	HDMI Cable		As required
44.	Threadner Cable		2 Nos.
45.	Gimble		5 nos.
46.	Headphone		06 nos.
47.	System Speaker 2.1		12 nos.
48.	Set of wireless microphones with transmitter and receiver		3 nos.
49.	Dry box / Dehumidifier		
50.	Camera cleaning kit		As required
51.	Walkie talkie		06 nos.
52.	Portable SSD	2 TB	12 No.
53.	Extension Board		As required
54.	Steel almirah		2 Nos.
55.	Pigeon hole steel almirah		1 No.
56.	LCD Projector with white board / Interactive Panel 75" with OPS or more		1 No.
57.	RGB panel LED light	4 ft.	6 nos.

Note: -

1. Internet facility is desired to be provided in the class room.

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.

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

