GOVERNMENT OF INDIA MINISTRY OF SKILL



DEVELOPMENT &

ENTREPRENEURSHIP DIRECTORATE GENERAL OF TRAINING

COMPETENCY BASED CURRICULUM

VIDEO CAMERAMAN

(Duration: One Year) Revised in July 2022

CRAFTSMEN TRAINING SCHEME (CTS) NSQF LEVEL- 3



SECTOR – MEDIA AND ENTERTAINMENT



VIDEO CAMERAMAN

(Non-Engineering Trade)

(Revised in July 2022)

Version: 2.0

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL - 3

Developed By

Ministry of Skill Development and Entrepreneurship

Directorate General of Training

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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 role. In addition to this, a candidate is entrusted to undertake project work, extracurricular activities and on-the-job training to build up confidence. The broad components covered under Professional Skill subject are as below:

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 onthe- 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 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 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)	840
2	Professional Knowledge (Trade Theory)	240
3	Employability Skills	120
	Total	1200

Every year 150 hours of mandatory OJT (On the Job Training) at nearby industry, wherever not available then group project is mandatory.

4	On the Job Training (OJT)/ Group Project	150

Trainees of one-year or two-year trade can also opt for optional courses of up to 240 hours in each year for 10th class /12th class certificate along with ITI certificate. or. add on short term courses.

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 method. 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%.

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 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

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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:

Performance Level Evidence



(a) Marks in the range of 60%-75% to be allotted during assessment

For performance in this grade, the candidate should produce work which demonstrates attainment of an acceptable standard of craftsmanship with occasional guidance, and due regard for safety procedures and practices

- Demonstration of good skills and accuracy in the field of work/ assignments.
- A fairly good level of neatness and consistency to accomplish job activities.
- Occasional support in completing the task/ job.

(b Marks in the range of 75%-90% to be allotted during assessment

For this grade, a candidate should produce work which demonstrates attainment of a reasonable standard of craftsmanship, with little guidance, and regard for safety procedures and practices

- Good skill levels and accuracy in the field of work/ assignments.
- A good level of neatness and consistency to accomplish job activities.
- Little support in completing the task/ job.

(c) Marks 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.



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 he 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 advise about can era 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: ---MES/N0909, MES/N0507, MES/N0907, MES/N0913, MES/N0905, MES/N9401, MES/N0901, , MES/N9402, MES/N0916, MES/N0913, MES/N3412, MES/N9403, MES/N9404, MES/N9405.



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/N0909, MES/N0507, MES/N0907, MES/N0913, MES/N0905, MES/N9401, MES/N0901, , MES/N9402, MES/N0916, MES/N0913, MES/N3412, MES/N9403, MES/N9404, MES/N9405.		
NSQF Level	Level-3		
Duration of Craftsmen Training	One Year (1200 Hours+150 hours OJT/Group Project)		
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 fo	r:		
(i) Video Cameraman Trade	Diploma (Minimum 2 years) in Cinematography/ Videography from recognized board of education/ Institution or relevant Advanced Diploma (Vocational) from DGT with two years' experience in the relevant field. OR NAC/NTC passed in the trade of Video Cameraman with three years' experience in the relevant field. Essential Qualification: Relevant Regular/RPL variants of National Craft Instructor Certificate (NCIC) 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 qualifications. However, both of them must possess NCIC in any of its variants.
(ii) Employability Skill	MBA/ BBA / Any Graduate/ Diploma in any discipline with Two years'
	experience with short term ToT Course in Employability Skills.
	(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.
(iii) Minimum Age for Instructor	21 Years
List of Tools and Equipment	As per Annexure – I



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

- 1. Apply the uses of Lenses following safety precautions. MES/N0909
- 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. MES/N0507
- 3. Apply Introduction to Computer Fundamentals Monitor Calibration, Interfaces. MES/N0909
- 4. Apply the process of motion pictures. MES/N0907
- 5. Work with the basic theory concepts, principles and techniques of motion camera/video camera. MES/N0913
- 6. Work with the fundamentals of camera shots taking techniques and mise-en-scene. MES/N0905
- 7. Apply basic visual aesthetics. MES/N9401
- 8. Apply shooting in different lighting situations. MES/N0901
- 9. Demonstrate Videography Lighting in different lighting conditions. MES/N0507
- 10. Work with visual aesthetics and art appreciation. MES/N9402
- 11. Work with different kinds of colors in cinematography. MES/N0909
- 12. Work with editing and video post-processing softwares, colour correction, grading. MES/N0916
- 13. Work with different shooting techniques with a DSLR camera. MES/N0913
- 14. Demonstrate Shooting of video with audio by using different micro phones & use of editing & mixing of sound. MS/N0901,MES/N0907,MES/N3412
 - 15. Work with Multi-camera setup. MES/N9403
 - 16. Demonstrate the Shooting an interior event on Multi-camera setup in a studio. MES/N9404
 - 17. Demonstrate the Shooting of an uncontrolled event on Multi-camera setup. MES/N9405
 - 18. Apply and work with the production and planning of a documentary film. MES/0907







	LEARNING OUTCOMES	ASSESSMENT CRITERIA
1.	Apply the uses of Lenses following safety precautions. MES/N0909	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	Demonstrate different types of composition using various lighting techniques. Take photographs by varying aperture, shutter speed
	and outdoor photographs and use of special areas of photography. Work with different Types of object	and use of different types of lenses. Take photographs in outdoor and Indoor conditions by the use of Digital camera.
lighting: Daylight, Artificial light their combination. MES/N0507		Take photographs on different locations/ lighting situations.
3.	Apply Introduction to Computer Fundamentals Monitor Calibration, Interfaces. MES/N0909	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. MES/N0907	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.	Handle video camera and other professional updated video camera. Working on technical function of various cameras.



MES/N0913	
6. Work with the fundamentals of	Explain basic shot terminology: Close up, Mid shot,
camera shots taking techniques and	Long shot, Big close up, Mid-long shot, Extreme long
mise-en-scene.	shot, Point of view (POV) shot, Over-the Shoulder(OSS)
MES/N0905	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.	Explain various kinds of lights, natural, artificial,
MES/N9401	observation of various lighting situations and practicing
	taking shots in different lighting conditions.
8. Apply shooting in different lighting	Pre-visualization of exposure based on zone system.
situations. MES/N0901	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	Explain basic principle of light. (i) Electromagnetic
in different lighting conditions.	spectrum, visible spectrum. (ii) Behaviour of light
MES/N0507	(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.
	1



10. Work with visual aesthetics and art appreciation. MES/N9402	Working on studio lighting, portrait, 3 point lighting and creation of mood.
11. Work with different kinds of colours in cinematography. MES/N0909	Shooting a scene with the importance of colour. Explain use of colours for creating different moods, feelings etc. Explain the color of natural light at various times of a day. Use color filters on studio lights and camera lenses.
12. Work with editing and video post- processing softwares, colour correction, grading. MES/N0916	Work on editing software and image post processing software. Use basic editing techniques. Demonstrate import and ingest video clips into the computer. Perform basic color correction and post processing of the images.
13. Work with different shooting techniques with a DSLR camera. MES/N0913	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. MS/N0901,MES/N0907,MES/N3412	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. MES/N9403	Place three cameras in a studio and understanding the basic multicam set up. Perform Studio lighting for multi camera set-up scenarios. Interviews, Panel discussions, debates etc.



16. Demonstrate the Shooting an interior	Perform shooting an interior event with multi cameras
event on Multi-camera setup in a	e.g. fashion shoot, musical show.
studio. MES/N9404	
17. Demonstrate the Shooting of an	Demonstrate multi camera shooting in uncontrolled
uncontrolled events on Multi-camera	real life situations. Going outdoors in a group and
setup. MES/N9405	shooting an event with different cameras.
18. Apply and work with the production	Make a film of your idea with planning, writing, location
and planning of a documentary film.	recce, story boarding, budgeting, scheduling, etc.
MES/0907	

7. TRADE SYLLABUS

SYLLABUS FOR VIDEO CAMERAMAN TRADE					
	DURATION: ONE YEAR				
Duration	Reference Learning Outcome	Professional Skills (Trade Practical) With Indicative Hours		Professional Knowledge (Trade Theory)	
Professional	Apply the uses of Lenses following	1. Id	entification of basic	Importance of safety and	
Skill 42Hrs;	safety precautions.	fir	st aid devices and	general precautions.	
	MES/N0909	us	e them in different	Observed in the trade by	
Professional		cir	cumstances. (04	the Institution. Care	
Knowledge		Hr	rs)	&maintenance of	
12Hrs		2. Id	entification of	equipment& material.	
1		di	fferent fire	Introduction to	
		Ex	tinguishers and its	photography and its	
		us	e as per	applications.	
		re	quirement and also	Introduction to Cameras	
		th	e use of safety	& it's History.	
		ala	arms. (04 Hrs)	Understanding the aspect	
		3. To	identify, handle	of video cameraman. (06	
		an	d disposed off	hrs.)	
		da	ngerous goods		
		ac	cording to policy		
		an	d procedures and		
		als	so know how to		



			report to supervisor	
			/competent authority	
			in case of any incident.	
			(04 Hrs)	
		4.	To identify and	
			observe evacuation	
			procedure according	
			to site policy. (5 Hrs)	
		5.	To identify different	
			types of Analog and	
			digital cameras and its	
			different parts. (5 Hrs)	
		6.	To identify different	Types of Lenses
			types of lenses for	Four basic types of lenses,
			different types of	they are: •Normal •Wide
			cameras. (5 Hrs)	angle •Telephoto •Zoom
		7.	To use the lenses with	Introduction to Focal
			wide angle, Normal,	length.
			telephoto and zoom	Depth-of-field. Depth of
			range and practice	focus.
			taking pictures at	Perspective ,aberrations of
			different focal lengths	Lens. (06 hrs.)
			and group discussion	,
			on them. (15 Hrs)	
Professional	Work with the application of	8.	Practice on different	Exposure, Colour
Skill 21Hrs;	various types of lights. Apply		types of composition	temperature & colour
,	different Lighting techniques,		using various lighting	•
Professional	taking indoor and outdoor		techniques. (05 Hrs)	Conception of aperture,
Knowledge	photographs and use of special	9.	To do practice on	shutter speed, ISO.
06Hrs	areas of photography. Work with		taking photographs by	Knowledge of Pixels &
	different Types of object lighting:		varying aperture,	their uses.
	Daylight, Artificial light and their		shutter speed and use	Use of lens hood, tripod
	combination. MES/N0507		of different types of	and modes.
	,		lenses. (06 Hrs)	(06 hrs.)
		10.	To do practice of	,
		-	taking photographs in	
			outdoor and Indoor	
			conditions by the use	
			conditions by the use	



		11.	of Digital camera. (04 Hrs) To do practice of taking photographs on different locations/ lighting situations. (06 Hrs)	
Professional	Apply Introduction to Computer	12.	Practice on	Basics of Computers, OS,
Skill 42Hrs;	Fundamentals Monitor Calibration,		multimedia platform	RAM, ROM and Graphic
	Interfaces. MES/N0909		for internet and its	cards, Concept of
Professional	·		functions. (12 Hrs)	operating software,
Knowledge		13.	Practice on operating	functions and its uses.
12Hrs			software with	Basics of Internet,
			accessories and	different image editing
			configuration of	software & its application.
			multimedia PC with	Multimedia platform,
			other application	accessories and
			software, Monitor	configuration of
			Calibration. (30 Hrs)	multimedia PC. (12 hrs.)
Professional	Apply the process of motion	14.	Practice with digital	Persistence of Vision,
Skill 21Hrs;	pictures. MES/N0907		video cameras on	
			tripod, tape, VTR,	Understanding how
Professional			Camcorder, Monitor.	motion picture cameras
Knowledge			(07 Hrs)	work.
06 Hrs		15.	To set up a single	
			camera unit: Black	History of cinematography
			balance and White	(06 hrs.)
			balance, Adjustment	
			of viewfinder and	
			monitor,	
			Familiarization of in-	
			camera filters and	
			other in-camera	
			controls, Day-for-night	
		4.0	Videography. (09 Hrs)	
		16.	Operational practice	
			of various camera	
			movements. (5 Hrs)	



Professional	Work with the basic theory	17.	Handling of video	Basic theory of image
Skill 21Hrs;	concepts, principles and techniques		camera and other	formation in a video
	of motion camera/video camera.		professional updated	camera.
Professional	MES/N0913		video camera. (11 Hrs)	Understanding 3CCD
Knowledge		18.	Working on technical	technology, various type of
06 Hrs			function of various	sensors.
			cameras. (10 Hrs)	Fundamental of celluloid
				medium, latent image
				formation, development
				and processing.
				Knowledge about different
				type of film and film speed.
				(06 hrs.)
Professional	Work with the fundamentals of	19.	Practice on basic shot	Understanding basics of
Skill 21Hrs;	camera shots taking techniques and		terminology: Close up,	composition, movement,
	mise-en-scene.		Mid shot, Long shot,	visual balance, continuity,
Professional	A 450 (NOOO5		Big close up, Mid-long	axis matching, mise-en-
Knowledge	MES/N0905		shot, Extreme long	scene. (06 hrs.)
06 Hrs			shot, Point of view	
			(POV) shot, Over-the	
			Shoulder(OSS) shot,	
			high angle and low	
			angle shot, top angle	
			shot. (07 Hrs)	
		20.	Practice on Action Axis	
			(180 degree rule);	
			matching of action,	
			Static and Dynamic	
			Continuity, Reverse	
		24	angle. (07Hrs)	
		21.	Operations of Camera	
			movements Pan, tilt,	
			dolly, crane, steady –	
			cam and usage of	
			other camera support.	
Professional	Apply basic visual aesthetics.	22	(07 Hrs) Introduction to	Understanding visual
Skill 21Hrs;	MES/N9401	۷۷.	various kinds of lights,	communication and
JKIII ZIIII3,	23,113 101		various kinus of lights,	communication and



			natural, artificial,	aesthetics in Photography.
Professional			observation of various	('rule' of photographic
Knowledge			lighting situations and	composition), Theory of
06 Hrs			practicing taking shots	light and sources. (06
			in different lighting	hrs.)
			conditions. (21Hrs)	
Professional	Apply shooting in different lighting	23.	Pre-visualization of	Principles of light,
Skill 42Hrs;	situations. MES/N0901		exposure based on	photometry,
			zone system. (10 Hrs)	measurement of light with
Professional		24.	Shooting with	light meters, fundamental
Knowledge			different lights in	of exposure, F-stop, T-
12Hrs			studio by creating	stop, characteristic curve
			different exposure	of various sensors. Zone
			zones. (10 Hrs)	system, 18% grey card. (12
		25.	Practicing zone system	hrs.)
			and exposure in	
			natural light. (10 Hrs)	
		26.	Shooting different	
			scenes at various	
			times of day. (12 Hrs)	
Professional	Demonstrate Videography Lighting	27.	Practice on basic	Basic principle of light. (i)
Skill 84Hrs;	in different lighting conditions.		principle of light. (i)	Electromagnetic spectrum,
	MES/N0507		Electromagnetic	visible spectrum. (ii)
Professional			spectrum, visible	Behaviour of light falling
Knowledge			spectrum. (ii)	on an object – absorption,
24Hrs			Behaviour of light	reflection refraction,
			(Direct and	transmission, diffraction,
			Indirect)(iii) Inverse	dispersion, scattering of
			square law. (iv)Basic	light, refractive index. (iii)
			principles of color,	Inverse square law. (iv)
			Color temperature.	Basic principles of color,
			(27 Hrs)	2. (i)Quality of light :
		28.	Practice on quality of	•
			light: Specular,	bounced. (ii) Types of light:
			diffused and bounced.	Natural day light,
			(ii) Types of light :	• =
			Natural day light,	halogen, [Tenner (10K),
			Incandescent,	Senior (5K), Junior (2K),



			(tungsten- halogen,	Baby (1K), Inkie Multi 10,
			LED and PAR etc. (27	Multi 20 etc.]
			Hrs)	(photoflood), fluorescent,
		29.	Practice on Low key	(Kino Flo), Metal Halide
			and High key	enclosed AC arc (HMI) etc.
			technique of lighting,	3. Basic understanding of
			use of back light,	lighting ratio (key + fill : fill
			kicker and background	alone) use of back light,
			light. Practice to light	kicker and back
			up 2-point and 3-point	ground light. How to lit up
			lighting in an indoor	an indoor situation. Use of
			situation. Light source	light source filters. 4. Use
			filters and gels for	of reflectors, and soft
			mixed lighting	boxes, mirrors, skimmers
			situation. (27 Hrs)	as fill light in an outdoor
		30.	Practice to use the	situation.
			reflectors, mirrors,	5. Knowledge of symbols
			skimmers as fill light in	(icon) to identify the
			an outdoor situation.	various lighting
			(27 Hrs)	equipments.
				6. Use of correction filters.
				(24 hrs.)
Professional	Work with visual aesthetics and art	31.	Working on studio	Art appreciation, visual
Skill 63Hrs;	appreciation MES/N9402		lighting, portrait, 3	aesthetics, study of
			point lighting, creation	paintings,
Professional			of mood. (63 Hrs)	cinematographers' works,
Knowledge				understanding basic
18Hrs				principles of composition,
				lighting, Chiaroscuro,
				creation of mood etc. (18
				hrs.)
Professional	Work with different kinds of colors	32.	Shooting a scene with	Basic principles of color,
Skill 63Hrs;	in cinematography. MES/N0909		the importance of	CIE diagram, trichromatic
			color. (14 Hrs)	theory of vision. (18 hrs.)
Professional		33.	Understanding use of	
Knowledge			colors for creating	
18Hrs			different moods,	
			feelings etc. (14 Hrs)	



		34.	Studing the color of	
			natural light at various	
			times of a day. (21 Hrs)	
		35.	Using color filters on	
			studio lights and	
			camera lenses. (14	
			Hrs)	
Professional	Work with editing and video post-	36.	Learning editing	Joining the shots and
Skill 63Hrs;	processing softwares, color		software and image	scenes.
	correction, grading. MES/N0916		post processing	The cut and types of cuts.
Professional			software. (14 Hrs)	The imaginary lines, basic
Knowledge		37.	Using basic editing	moments and other
18Hrs			techniques. (14 Hrs)	transitions i.e. fade, mix,
		38.	Learning how to	etc.
			import and ingest	Understanding
			video clips into the	fundamentals of color
			computer. (14Hrs)	theory, additive and
		39.	Doing basic color	subtractive color, white
			correction and post	balance etc. (18 hrs.)
			processing of the	
			images. (21 Hrs)	
Professional	Work with different shooting	40.	Handling of DSLR	Introduction to DSLR
Skill 84Hrs;	techniques with a DSLR camera.		camera and their	cameras technology.
	MES/N0913		accessories, camera	Working principle of an
Professional			movement – Pan – tilt-	image sensor, shutter,
Knowledge			zoom. Dimension of	aspect ratios, resolution,
24Hrs			image. (28 Hrs)	SD, HD, UHD.
		41.	Practice on some basic	Understanding Gamma,
			camera do's and	contrast and dynamic
			"dont's before and	range. Understanding
			after the shoot. (28	compression and types of
			Hrs)	file formats. (24 hrs.)
		42.	Practice on DSLR and	
			video camera.	
			Assignment must be	
			given at the end of	
			every week and	



			monitor the same. (28 Hrs)	
Professional	Demonstrate Shooting of video	43.	Practice on the	Video and Audio
Skill 63Hrs;	with audio by using different micro		concept of audio video	productions.
	phones & use of editing & mixing of		recording using	Knowledge of sound
Professional	sound.		External Microphone,	techniques. Use of
Knowledge	MS/N0901,MES/N0907,MES/N3412		boom, lapel, on	different microphones,
18Hrs			camera microphone	Mono, Stereo and
			and Line recording.	Surround sound
			(20 Hrs)	techniques.
		44.	Shooting a sequence	Recording methods, sound
			with sound recording.	mixing, editing. (18 hrs.)
			(18 Hrs)	
		45.	Practice on mixing	
			editing of sound. (25	
Duefessional	NA/antonith NAviti agreement satura	1.0	Hrs).	Lindoustouding placement
Professional	Work with Multi-camera setup. MES/N9403	46.	Placing of three cameras in a studio	Understanding placement
Skill 42Hrs;	WE3/119403		and understanding the	of multiple cameras and their shots Basic editing
Professional			basic multicam set up.	knowledge for different
Knowledge			(42 Hrs.)	types of shoots e.g. sports,
12Hrs			(42 1113.)	wedding, fashion show.
123				(12 hrs.)
Professional	Demonstrate the Shooting an	47.	Studio lighting for	TV studio program shoot.
Skill 42Hrs;	interior event on Multi-camera		multi camera set-up	2/3 ponit discussion.
	setup in a studio. MES/N9404		scenarios. Interviews,	Musical program, dance,
Professional			Panel discussions,	drama, live show, events
Knowledge			debates, etc. (21 Hrs.)	involving VVIPs, Outdoor
12 Hrs		48.	Shooting an interior	multi-camera shoot (LIVE
			event with multi	recording), Sports.
			cameras e.g. fashion	Understanding the
			shoot, musical show.	importance of matching
			(21 Hrs.)	shots/ comparing shots by
				seeing the return. (12 hrs.)
Professional	Demonstrate the Shooting of an	49.	Multi camera shooting	News coverage. Ethics of
Skill 21Hrs;	uncontrolled events on Multi-		in uncontrolled real	coverage. What are the
	camera setup. MES/N9405		life situations. Going	events covered in News.
			outdoors in a group	Disaster coverage, defence



Professional			and shooting	an event	coverage, cultural events,
Knowledge			with	different	elections etc. Types of
06 Hrs			cameras. (21	Hrs.)	shots required to establish
					the event. Green
					Background video-graphy (
					Chroma shoot)/ virtual set
					shooting. Robotic camera/
					PTZ cameras.
					(06 hrs.)
Professional	Apply and work with the	50.	Make a film	of your	Understanding
Skill 84Hrs;	production and planning of a		idea with	planning,	documentary films, types
	documentary film MES/N0907		writing, locat	ion recce,	of documentary films,
Professional			story	boarding,	ethnographic,
Knowledge			budgeting, so	cheduling,	observational,
24 Hrs			etc. (84hrs.)		experimental, personal.
					Cinema-verite principle.
					Viewing of documentary
					films and discussion.
					(24 hrs.)

SYLLABUS FOR CORE SKILLS

1. Employability Skills (Common for all CTS trades) (120 Hrs)

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



ANNEXURE-I

	List of Tools & Equipment					
	VIDEO CAMERAMAN (For batch of 24 Candidates)					
S No.	Name of the Tools and Equipment	Specification	Quantity			
1.	Colour Scanner Flat Board/ optical scanner.	For insertion of images	1 No.			
2.	Video Camera (computerized Control Panel, multi-channel switcher) complete with accessories		1 No.			
3.	Colour filters	- set of 4 different shades.	1 set.			
4.	Grey scale-Reflection & Transmission type	-set of 4different shades	1 set.			
5.	Air conditioner		As required			
6.	Fire Extinguisher	Arrange all proper NOCs and ed Municipal/Competent authorit				
7.	Desktop computer	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.				
8.	Ink jet printer and laser jet printer with color cartridge	(1200 dpi or higher)	2 Nos. each.			
9.	Studio room (30ft X 30ft X 15ft height)		1 NO.			
	fitted with cataract system, light grid,					
	sound proof, AC with cyclorama					



10.	Window operating system (latest version)		As required
11.	Free hand latest version		1 No.
12.	Photo editing software		1 No.
13.	M S Office latest version		As per
			requirement
14.	Flash latest version		1 No.
15.	Sound forge (latest version)		1 No.
16.	Digi mix latest version		1 No.
17.	Table for computer, printer and scanner		12 Nos.
18.	Computer chair		24 Nos.
19.	Digital SLR Camera with camcorder and		2 Nos.
	other accessories (latest version)		
20.	Video camera latest version with essential		2 Nos.
	accessories		
21.	Studio and class room furniture:		
	a) Steel chair folding type with arm rest		24 Nos.
	b) Working table		24 Nos.
22.	LUX Meter, Intervalo meter		2 Nos.
23.	Standalone DVD recorder		2 Nos.
24.	Laser printer with colour cartridge (1200		1 No.
24.	dpi or higher)		
25.	Scanner (1200 dpi or higher)		2 Nos.
	Online UPS		As required
26.	or organization		
27	Offline UPS Windows operating system	latest version	12 Licenses
27.	Photo editing software like Photoshop CS	iatest version	_
28.	3 etc.		As required
29.	MS-Office	latest version	12 Licenses
30.	Macro media Free Hand	latest version	12 Licenses
31.	Flash	latest version	12 Licenses
32.	Director	latest version	12 Licenses
33.	Sound Forge/ cool edit pro	latest version	12 Licenses
34.	Anti Virus software	latest version	12 Licenses
35.	Adobe premier	available version	12 Licenses
36.	Table for computer		12 Nos.
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38.	Chairs for computer classes		24 Nos.
39.	Pen drive	8 GB, 16 GB	5 Nos.
40.	Multiple card reader		5 each.
41.	Reflectors (Folding Portable)		8 Nos.
42.	Cool light		8 Nos.
43.	Multi 10 & Multi 20		8 Nos.
44.	Sun Gun		6 Nos.
45.	Porto pack light		3 Sets
46.	Tape match able with the camera		As required
47	Slide & film high resolution scanner with		1 No.
47.	adapter for A3		
40	Slide & film high resolution scanner with		1 No.
48.	adapter for A4		
49.	DV VTR according to digital camera		1 No.
Γ0	DV VTR with play back adapter for		1 No.
50.	camcorder		
51.	Play back adapter for video camera		1 No.
52.	Battery for digital video camera		1 No.
53.	Microphone (boom)		2 Nos.
54.	Microphone (lapel)		1 No.
55.	Trolley set	30 ft.	1 No.
56.	Round trolley	30 ft.	1 No.
57.	Power Cable		As required
58.	Extension Board		As required
59.	BNC cable with various connectors	80 ohms	As required
60.	Steel almirah		2 Nos.
61.	Pigeon hole steel almirah		1 No.
62.	LCD Projector/interactive smart board.		1 No.

Note: -

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



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



