

Model Curriculum

QP Name: Dron-O-Grapher

QP Code: TEL/Q6221

QP Version: 1.0

NSQF Level: 3

Model Curriculum Version: 1.0

Telecom Sector Skill Council |Estel House, Sector-44, Plot No. 126, 3rd Floor Gurugram-122003







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Training Parameters

Sector	Telecom
Sub-Sector	Network Managed Services
Occupation	Network Operation and Maintenance
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/3431.9900
Minimum Educational Qualification and Experience	10th grade pass (or equivalent) OR 9th grade pass (with1-year relevant experience) OR 8th grade pass (with2-year relevant experience)
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	31.01.2027
NSQC Approval Date	31.01.2024
QP Version	1.0
Model Curriculum Creation Date	31.01.2024
Model Curriculum Valid Up to Date	31.01.2027
Model Curriculum Version	1.0
Minimum Duration of the Course	420 hours
Maximum Duration of the Course	420 hours







Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills to:

- Demonstrate drone operations and its camera accessories
- Perform post processing and editing of photographs and footages
- Illustrate the process of maintenance and troubleshooting of drones.
- Define the use of drones in different other sectors.
- Explain the importance of organising work and resources as per health and Safety standards.
- Explain the importance of interacting effectively with team members and customers.

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
Bridge Module	20:00	10:00	00:00	-	30:00
Module 1: Introduction to the role of a Dron-o-Grapher	20:00	10:00	00:00	-	30:00
TEL/Q6263: Operate drone and camera accessories NOS Version-1.0 NSQF Level-3	20:00	40:00	30:00	-	90:00
Module 2: Operate drone and camera accessories	20:00	40:00	30:00	-	90:00
TEL/Q6264: Perform post processing and editing of photographs and footages NOS Version-1.0 NSQF Level-3	10:00	50:00	30:00	-	90:00
Module 3: Perform post processing and editing of photographs and footages	10:00	50:00	30:00	-	90:00
TEL/Q6265: Preventive maintenance and troubleshooting of drones and related accessories NOS Version-1.0 NSQF Level-3	20:00	40:00	30:00	-	90:00

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Module 4: Preventive maintenance and troubleshooting of drones and related accessories	20:00	40:00	30:00	-	9	0:00
TEL/Q6266: Use drone photography in various sectors NOS Version-1.0 NSQF Level-3	20:00	10:00	30:00	-		60:00
Module 5: Use drone photography in various sectors	20:00	10:00	30:00	-		60:00
DGT/VSQ/N0102: Employability Skills (60 Hours) NOS Version No. 1.0 NSQF Level- 2	60:00	00:00	00:00	-		60:00
Total Duration	150:00	150:00	120:00			420:00







Module Details

Module 1: Introduction to the role of a Dron-o-Grapher *Bridge Module*

- Discuss the job role of a Dron-o-Grapher.
- Explain the scope of work for a Dron-o-Grapher.

 Describe the size and scope of the Telecom industry and its subsectors. Illustrate the drone technology. Discuss the role and responsibilities of a Dron-o-Grapher. Discuss the DGCA guidelines for drones. Identify various employment opportunities for a Dron-o-Grapher. Discuss the organisational policies on workplace ethics, managing sites, quality standards, personnel management and public relations Role play based on case studies, outlining the scope, responsibilities, and challenges of a Dron-o-Grapher. Analyse the requirements for the course and prepare for the pre-requisites of the course. 	Duration: 20:00	Duration: 10:00
 Telecom industry and its subsectors. Illustrate the drone technology. Discuss the role and responsibilities of a Dron-o-Grapher. Discuss the DGCA guidelines for drones. Identify various employment opportunities for a Dron-o-Grapher. Discuss the organisational policies on workplace ethics, managing sites, quality standards, personnel management and public relations outlining the scope, responsibilities, and challenges of a Dron-o-Grapher. Analyse the requirements for the course and prepare for the pre-requisites of the course. 	Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Grapher. Discuss the DGCA guidelines for drones. Identify various employment opportunities for a Dron-o-Grapher. Discuss the organisational policies on workplace ethics, managing sites, quality standards, personnel management and public relations 	Telecom industry and its subsectors.Illustrate the drone technology.Discuss the role and	 outlining the scope, responsibilities, and challenges of a Dron-o-Grapher. Analyse the requirements for the
 Discuss the DGCA guidelines for drones. Identify various employment opportunities for a Dron-o- Grapher. Discuss the organisational policies on workplace ethics, managing sites, quality standards, personnel management and public relations 		
 opportunities for a Dron-o- Grapher. Discuss the organisational policies on workplace ethics, managing sites, quality standards, personnel management and public relations 	• Discuss the DGCA guidelines for	
on workplace ethics, managing sites, quality standards, personnel management and public relations	opportunities for a Dron-o-	
(PR).	on workplace ethics, managing sites, quality standards, personnel	
 List the various daily, weekly, monthly operations/activities that take place at the site under a Dron-o-Grapher. 	monthly operations/activities that take place at the site under a	
Classroom Aids:	Classroom Aids:	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films		
Tools, Equipment and Other Requirements	Tools, Equipment and Other Requirements	
NA	NA	







Module 2: Operate drone and camera accessories Mapped to NOS: TEL/N6263, v1.0

- Describe the process of pre operations checks conducted before a drone flight.
- Illustrate the process of conducting flight operations of a drone.
- Demonstrate the process of Capture drone video and aerial photography.

Duration: 20:00	Duration: 40:00		
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes		
 Theory - Key Learning Outcomes Describe the pre-flight checks required for a drone, including battery inspection, propeller examination, and control system testing. Explain the importance of calibrating the drone's GPS and compass for accurate and reliable flight. Discuss the significance of maintaining a clear and functional camera and gimbal for capturing high-quality footage. Analyze the role of memory cards and storage devices in storing and managing drone footage. Outline the components and functions of a remote controller, including control sticks, buttons, and switches. Explain the importance of keeping the drone's firmware and companion software up to date for optimal performance. 			
	remote controller, following proper procedures.Fly a drone in a controlled manner,		
 Elaborate the process of powering on and off the drone and remote controller. 	 Thy a drone in a controlled mannel, maintaining stability, altitude, and situational awareness. Use the camera controls on a drone's remote controller or mobile app to capture photos and record video. 		
	 Adjust camera settings, such as 		

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		resolution, frame rat white balance, to ach outcomes.		
	•	Frame shots using the I the drone's camera and position and orie composition.		
	•	Capture smooth maintaining controlled and exploring differ movements.		
	•	Safely land a drone landing zone, considerin obstacles in the vicinity.	ng people and	
	•	Assess lighting cond location to optimize ca and capture high-qualit	mera settings	

Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Drones, Batteries (to power the drones) Propellers (for inspection and examination), Control system testing tools (such as software or diagnostic devices), GPS calibration equipment, Compass calibration equipment, Camera and gimbal inspection tools, Memory cards or storage devices, Remote controllers, Firmware and software update tools, Weather condition monitoring tools (such as meteorological instruments or apps), Power switches for drones and remote controllers, Suitable landing zones, Camera control features on remote controllers or mobile apps, Camera settings adjustment tools, Lighting assessment tools, Safety equipment (such as protective gear, first aid kits, fire extinguishers, etc.).

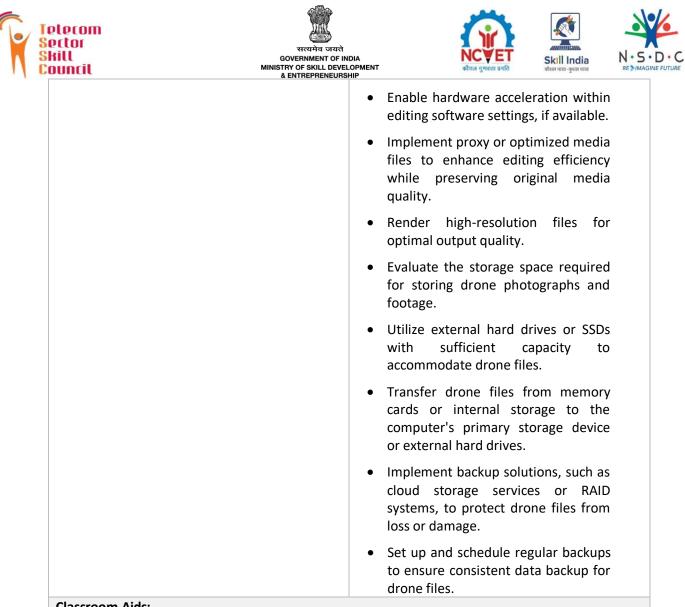






Module 3: Perform post processing and editing of photographs and footages *Mapped to NOS: TEL/N6264, v1.0*

- Describe the process of optimizing and maintaining editing workstations for drone media processing.
- Demonstrate the process of using image and video editing software that is captured from drones.
- Describe the importance of Storage and Backup Solutions.



Classroom Aids:

Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Editing software (e.g., Adobe Premiere Pro, Final Cut Pro, DaVinci Resolve), Resource-intensive editing software, Hardware upgrade components (such as RAM, graphics card, storage devices), Operating system updates, Driver updates, File organization software or tools, Image and video editing software (e.g., Adobe Photoshop, Lightroom, After Effects), Backup solutions (e.g., external hard drives, cloud storage), Storage devices (internal or external hard drives, SSDs), Memory cards (for transferring drone files), Primary storage devices (internal hard drives), Proxy or optimized media files (to enhance editing efficiency), RAID systems (for data redundancy and protection), Backup scheduling tools or software, Training materials and resources (documentation, tutorials, sample files), Projectors or display screens for presentations, Internet connectivity (for software downloads, updates, and online resources), Training room or space with suitable seating arrangements, Writing materials (pens, paper), Audiovisual equipment (microphones, speakers)







Module 4: Preventive maintenance and troubleshooting of drones and related accessories Mapped to NOS: TEL/N6265, v1.0

- Describe the drone related issues.
- Demonstrate the steps to repair and maintain a drones
- Illustrate the process of repairing and maintaining different drone accessories.

Duration: 20:00	Duration: 40:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Define the potential signs of abnormal behavior, error messages, and visual cues exhibited by a drone or its accessories that may indicate issues or malfunctions. 	 Analize abnormal behavior, error messages, and visual cues exhibited by a drone or its accessories. Analyze flight logs to extract and interpret performance data from
 Explain the importance of analyzing flight logs to gain insights into a drone's performance, including flight parameters and any recorded errors. 	 interpret performance data from drones. Navigate user manuals, manufacturer websites, and online forums to access troubleshooting
 Discuss the various sources of troubleshooting guides and common issues related to specific drone models, such as user manuals, 	 guides and common issues specific to drone models. Calibrate utilities, sensor status
 manufacturer websites, and online forums. Describe the process of calibrating 	indicators, or connectivity testers of drones as part of practical training exercises.
utilities, sensor status indicators, or connectivity testers of drones for optimal performance.	 Perform preventive maintenance tasks on drones, including cleaning, inspection, and firmware updates, during practical training sessions.
 Explain the importance of regular preventive maintenance tasks recommended by manufacturers, including cleaning, inspection, firmware updates, and battery 	 Utilize a systematic approach to troubleshoot and identify the root cause of problems in drones and their accessories.
 health checks. Describe a systematic approach for troubleshooting and isolating the root cause of problems in drones and their accessories. 	 Practice proper cleaning techniques for drones and their accessories, including using a soft brush or compressed air to remove debris.
 their accessories. Understand the functional interdependencies between different drone components, such as 	 Update drone firmware following the manufacturer's guidelines during practical training exercises. Calibrate drones' sensors, compass,

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frames, motors, propellers, cameras, gimbals, and		and gimbals under the instructors during hands	-	
accessories.	•	Identify and replace fadrones and their accers inspection and diagnosis	ssories after	
	•	Inspect batteries regula of damage or swelling them if necessary, dur training sessions.	and replace	
	•	Conduct visual inspection accessories, such as chargers, remote contro- gimbals, and ND filters damage, wear, or malfu	propellers, ollers, camera , for signs of	
	•	Calibrate camera gimba proper operations dur training exercises.		

Classroom Aids:

Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Drones, Drone accessories (propellers, batteries, chargers, gimbals, ND filters, etc.), Flight logs (to analyze drone performance data), User manuals (for troubleshooting guides and information on specific drone models), Manufacturer websites (for accessing documentation and resources), Online forums (for community support and discussions), Calibration utilities or tools (for sensor status indicators, connectivity testers), Maintenance tools (such as soft brushes, compressed air, screwdrivers), Firmware update tools (specific to drone models), Visual inspection tools (to identify damage or malfunction), Spare parts (for replacement during practical training sessions), Battery health check tools (to assess battery condition), Instructional materials (documentation, tutorials, sample flight logs), Projectors or display screens for presentations, Training room or space with suitable seating arrangements, Writing materials (pens, paper), Audiovisual equipment (microphones, speakers), Internet connectivity (for accessing online resources and forums), Computer or laptop (for analyzing flight logs and accessing digital resources), Flight simulators (for virtual training exercises)







Module 5: Use drone photography in various sectors Mapped to NOS: TEL/N6266, v1.0

- Describe the use of drones in real estate.
- Discuss the application of drones in agriculture.
- Recognize the use of drones in media and journalism industry.
- Illustrate the application of drones in tourism and hospitality industry.

Duration: 20:00 Duration: 10:00				
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes			
 Define the key considerations for capturing high-quality aerial photographs of real estate properties, including property features, surrounding landscapes, and amenities. 	 Analize the process to capture high- quality aerial photographs of real estate properties during hands-on training sessions. Utilize drone photography techniques to emphasize key 			
 Describe the techniques for capturing wide-angle shots or panoramic views of real estate properties to provide comprehensive overviews. 	 features of a property and create visually appealing images in practical training exercises. Capture wide-angle shots or 			
 Discuss the techniques for capturing smooth and cinematic footage, incorporating transitions, and adding music or voiceovers to create 	panoramic views of real estate properties to provide comprehensive overviews during practical training sessions.			
 engaging real estate videos. Describe the process of operating a drone equipped with a camera for capturing high-resolution aerial 	 Edit drone photographs to enhance their visual appeal and showcase properties effectively in practical training exercises. 			
photographs of agricultural fields and crops.	 Create captivating drone videos of real estate properties, incorporating exterior and interior spaces, 			
 Explain the importance of understanding drone controls, camera settings, and flight 	amenities, and landscapes, during hands-on training.			
techniques for obtaining clear and well-composed images.	 Operate a drone equipped with a camera to capture high-resolution aerial photographs of agricultural 			
 Explain the process of interpreting aerial imagery and correlating visual cues with agronomic knowledge to 	fields and crops during practical training sessions.			
 make informed decisions. Discuss the planning and execution of efficient flight paths over agricultural fields, considering factors such as field size, crop type, 	 Analyze aerial imagery to assess crop health, identify stress or diseases, monitor nutrient deficiencies, and evaluate overall crop conditions in practical training exercises. 			









and desired image resolution.

- Discuss the integration of aerial imagery data into existing farm management systems or precision agriculture platforms.
- Discuss the techniques for capturing aerial shots that provide a broader perspective, highlight scale, showcase geographical features, or reveal unique angles.
- Explain the use of drone photography in showcasing tourist destinations, hotels, and resorts, including amenities and appealing features.
- Discuss the use of drone photography in creating engaging promotional content, including videos and images, for marketing campaigns and various media channels.
- Describe the inspection process for power lines, transmission towers, and energy infrastructure using drone technology.
- Apply knowledge of drone operation to proficiently navigate through challenging terrains, varying weather conditions, and complex environments.
- Evaluate the advanced imaging capabilities of drones in the context of search and rescue missions.

- Plan and execute efficient flight paths over agricultural fields considering factors such as field size, crop type, and desired image resolution during hands-on training.
- Integrate remote sensing technologies, such as multispectral or thermal cameras, into drone platforms for agricultural applications in practical training exercises.
- Interpret color variations, vegetation indices, and other data layers to assess crop vigor, growth patterns, or pest infestations during practical training sessions.
- Integrate aerial imagery data into existing farm management systems or precision agriculture platforms in practical training exercises.
- Operate a drone to capture highquality aerial footage of news events, social issues, natural disasters, or other relevant subjects during handson training.
- Capture aerial shots that provide a broader perspective, highlight scale, showcase geographical features, or reveal unique angles during practical training sessions.
- Utilize drone photography to showcase tourist destinations, hotels, and resorts, including amenities and appealing features, in practical training exercises.
- Use drone photography to create engaging promotional content, including videos and images, for marketing campaigns, websites, social media, and brochures during hands-on training.

Classroom Aids:

Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films







Tools, Equipment and Other Requirements

Drones, Drone accessories (propellers, batteries, chargers, gimbals, ND filters, etc.), Flight logs (to analyze drone performance data), User manuals (for troubleshooting guides and information on specific drone models), Manufacturer websites (for accessing documentation and resources), Online forums (for community support and discussions), Calibration utilities or tools (for sensor status indicators, connectivity testers), Maintenance tools (such as soft brushes, compressed air, screwdrivers), Firmware update tools (specific to drone models), Visual inspection tools (to identify damage or malfunction), Spare parts (for replacement during practical training sessions), Battery health check tools (to assess battery condition), Instructional materials (documentation, tutorials, sample flight logs), Projectors or display screens for presentations, Training room or space with suitable seating arrangements, Writing materials (pens, paper), Audiovisual equipment (microphones, speakers), Internet connectivity (for accessing online resources and forums), Computer or laptop (for analyzing flight logs and accessing digital resources), Flight simulators (for virtual training exercises)







Module 6: Employability Skills (60 Hours) Mapped to NOS: DGT/VSQ/N0102

	tory Duration: 60:00		
Location	n: On-Site Module Name	Key Learning Outcomes	
		Key Learning Outcomes	Duration(hours)
1.	Introduction to	Discuss the Employability Skills required for	1.5 Hours
	Employability Skills	jobs in various industries	
		List different learning and employability related COL and private partals and their	
		related GOI and private portals and their	
2.	Constitutional values -	 usage Explain the constitutional values, including 	1.5 Hours
۷.	Citizenship	civic rights and duties, citizenship,	1.5 110013
	Citizenship	responsibility towards society and	
		personal values and ethics such as honesty,	
		integrity, caring and respecting others that	
		are required to become a responsible	
		citizen	
		 Show how to practice different 	
		environmentally sustainable practices.	
3.	Becoming a	Discuss 21st century skills.	1 Hours
0.	Professional in the	 Display positive attitude, self - 	2110010
	21st Century	motivation, problem solving, time	
		management skills and continuous	
		learning mindset in different	
		situations.	
4.	Basic English Skills	Use appropriate basic English	2 Hours
		sentences/phrases while speaking	
5.	Communication Skills	• Demonstrate how to communicate in a well -	4 Hour
		mannered way with others.	
		Demonstrate working with others in a team	
6.	Diversity & Inclusion	• Show how to conduct oneself appropriately	1 Hour
		with all genders and PwD	
		Discuss the significance of reporting sexual	
7.	Financial and Legal	harassment issues in time	4 Hours
/.	Literacy	 Discuss the significance of using financial products and services safely 	
		and securely.	
		 Explain the importance of managing 	
		expenses, income, and savings.	
		 Explain the significance of approaching the 	
		concerned authorities in time for any	
		exploitation as per legal rights and laws	

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8.	Essential Digital Skills	 Show how to operate digital devices and use the associated applications and features, safely and securely Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely 	3 Hours
9.	Entrepreneurship	 Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges 	7 Hours
10.	Customer Service	 Differentiate between types of customers Explain the significance of identifying customer needs and addressing them Discuss the significance of maintaining hygiene and dressing appropriately 	4 Hours
11.	Getting ready for apprenticeship & Jobs	 Create a biodata Use various sources to search and apply for jobs Discuss the significance of dressing up neatly and maintaining hygiene for an interview Discuss how to search and register for apprenticeship opportunities R EMPLOYABILITY SKILLS 	2 Hours
S. No.	Name of the Equi		Quantity
1.	Computer (PC) connection with s processor and wo	with latest configurations – and Internet standard operating system and standard word rksheet software (Licensed) ould either be latest version or one/two version	As required
2.	UPS		As required
3.	Scanner cum Print	er	As required
<u> </u>	Computer Tables		As required
4.			As required
4. 5.	Computer Chairs		
	LCD Projector White Board 1200		As required







Module 7: On-the-Job Training Mapped to Dron-o-Grapher

Mandatory Duration: 120:00 Recommended Duration: 00:00						
Module Name: On-the-Job Training Location: On Site						
Terr	minal Outcomes					
1.	Perform a pre-flight inspection of a dror and flight controls.	ne, including checking the battery, propellers,				
2.	Calibrate the GPS and compass of a dror	ne to ensure accurate positioning and navigation.				
3.	 Inspect and adjust the camera and gimbal of a drone for proper alignment and functionality. 					
4.	Fly a drone in a controlled manner, maintaining stability, altitude, and situational awareness.					
5.	Use the camera controls on a drone's re and record video.	mote controller or mobile app to capture photos				
6.	Adjust camera settings, such as resolution achieve desired outcomes.	on, frame rate, ISO, and white balance, to				
7.	Frame shots using the live feed from the drone's camera and adjust drone position and orientation for composition.					
8.	Capture smooth footage by maintaining controlled maneuvers and exploring different camera movements.					
9.	. Safely land a drone in a suitable landing zone, considering people and obstacles in the vicinity.					
10.	Assess lighting conditions at a location t quality imagery.	o optimize camera settings and capture high-				







Annexure

Trainer Requirements

	Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience e	c	Remarks	
		Year s	Specializati on	Year s	Specialization		
Diploma in any field	NA	4	Drone Technology	0	NA	Eligible for ToT program	
Graduate	NA	1	Drone Technology	0	NA	Eligible for ToT program	

Trainer Certification					
Domain Certification	Platform Certification				
Job Role " Dron-o-Grapher ", "TEL/Q6221, v1.0", Minimum accepted score is 80%.	Trainer is certified for the job role "Trainer (VET & SKILLS)" ; mapped to Qualification Pack: - "MEP/Q2601, v2.0" with minimum 80% of score.				







Assessor Requirements

	Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experienc e		Remarks	
		Year s	Specializati on	Year s	Specialization		
Diploma in any field	NA	4	Drone Technology	0	NA	Eligible for ToT program	
Graduate	NA	1	Drone Technology	0	NA	Eligible for ToT program	

Assessor Certification					
Domain Certification Platform Certification					
Job Role " Dron-o-Grapher ", "TEL/Q6221, v1.0", Minimum accepted score is 80%	Assessor is certified for the job role "Assessor (VET & SKILLS)" ; mapped to Qualification Pack: - "MEP/Q2701, v2.0" with minimum 80% of score.				







Trainer Requirements (Employability Skills 60 hours)

	Trainer Prerequisites					
Minimum Educational	Specialization		Relevant Industry Experience		ng Experience	Remarks
Qualification		Years	Specialization	Years	Specialization	
Graduate/CITS	Any discipline			2	Teaching experience	Prospective ES trainer should:
Current ITI trainers	Employability Skills Training (3 days full- time course done between 2019-2022)					 have good communication skills be well versed in English
Certified current EEE trainers (155 hours)	from Management SSC (MEPSC)					 have digital skills have attention to
Certified Trainer	Qualification Pack: Trainer					detail • be adaptable • have willingness to learn

Trainer Certification					
Domain Certification	Platform Certification				
Certified in 30-hour Employability NOS (2022), with a minimum score of 80% OR Certified in 120- OR 90- OR 60-hour Employability NOS (2022), with a minimum score of 80%	ΝΑ				







Master Trainer Requirements (Employability Skills 60 hours)

	Master Trainer Prerequisites					
Minimum Educational	Specialization	Relevant Industry Experience		Trainir	ng Experience	Remarks
Qualification		Years Specialization		Years	Specialization	
Graduate/CITS	Any discipline			3	Employability Skills curriculum training experience with an interest to train as well as orient other peer trainers	Prospective ES trainer should: • have good communication skills • be well versed in English • have digital skills • have
Certified Master Trainer	Qualification Pack: Master Trainer			3	EEE training of Management SSC (MEPSC) (155 hours)	attention to detail • be adaptable • have willingness to learn

Master Trainer Certification					
Domain Certification	Platform Certification				
Certified in 30-hour Employability NOS (2022), with a minimum score of 90%. OR Certified in 120- OR 90- OR 60-hour Employability NOS (2022), with a minimum score of 90%	NA				







Assessment Strategy

- 1. Assessment System Overview:
 - Batches assigned to the assessment agencies for conducting the assessment on SDSM/SIP or email.
 - Assessment agencies send the assessment confirmation to VTP/TC looping SSC.
 - The assessment agency deploys the ToA certified Assessor for executing the assessment.
 - SSC monitors the assessment process & records.

2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SIP.
- Check the duration of the training.
- Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
- Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
- Check the availability of the Lab Equipment for the particular Job Role.

3. Assessment Quality Assurance levels / Framework:

- Question papers created by the Subject Matter Experts (SME).
- Question papers created by the SME verified by the other subject Matter Experts.
- Questions are mapped with NOS and PC.
- Question papers are prepared considering that level 1 to 3 are for the unskilled & semi- skilled individuals, and level 4 and above are for the skilled, supervisor & higher management.
- An assessor must be ToA certified & the trainer must be ToT Certified.
- The assessment agency must follow the assessment guidelines to conduct the assessment.

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location.
- Center photographs with signboards and scheme-specific branding.
- Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period.
- Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos.
- 5. Method of verification or validation:
 - A surprise visit to the assessment location.
 - A random audit of the batch.
 - Random audit of any candidate.

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6. Method for assessment documentation, archiving, and access:

- Hard copies of the documents are stored.
- Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage.
- Soft copies of the documents & photographs of the assessment are stored in the Hard Drives.

Assessment Strategy (Employability Skills 60 hours)

The trainee will be tested for the acquired skill, knowledge and attitude through formative/summative assessment at the end of the course and as this NOS and MC is adopted across sectors and qualifications, the respective AB can conduct the assessments as per their requirements.







References

Glossary

Term	Description
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning Outcome	A key learning outcome is a statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
OJT (M)	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on-site
OJT (R)	On-the-job training (Recommended); trainees are recommended the specified hours of training on-site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work or produce a tangible work output by applying cognitive, affective or psychomotor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
Terminal Outcome	The terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.

Acronyms and Abbreviations

Term	Description
NOS	National Occupational Standard (s)
NSQF	National Skills Qualifications Framework
тю	On-the-job Training
QP	Qualifications Pack
PwD	People with Disability
PPE	Personal Protective Equipment