QUALIFICATION FILE

Telecom Rigger - 5G and Legacy Networks

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☒ Apprenticeship

☒ Upskilling ☐ Dual/Flexi Qualification ☒ For ToT ☒ For ToA

☐General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☒ Future Skills ☐ OEM

NCrF/NSQF Level: 3.0

Submitted By:

Telecom Sector Skill Council

3rd Floor, Plot No 126, Sector – 44, Gurgaon – 122003

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Section 1: Basic Details

<table>
<tr><td>1.</td><td>Qualification Name</td><td colspan="2">Telecom Rigger - 5G and Legacy Networks</td></tr>
<tr><td>2.</td><td>Sector/s</td><td colspan="2">Telecom</td></tr>
<tr><td>3.</td><td>Type of Qualification: ☐ New ☒ Revised ☐ Has Electives/Options ☐ OEM</td><td>NQR Code & version of existing/previous qualification:
(QG-03-TL-00082-2023-V1.1-TSSC, V3.0)</td><td>Qualification Name of existing/previous version:
Telecom Rigger - 5G and Legacy Networks</td></tr>
<tr><td>4.</td><td>a. OEM Name
b. Qualification Name
(Wherever applicable)</td><td colspan="2"></td></tr>
<tr><td>5.</td><td>National Qualification Register (NQR) Code &Version
(Will be issued after NSQC approval)</td><td>QG-03-TL-04091-2025-V2-TSSC</td><td>6. NCrF/NSQF Level: 3.0</td></tr>
<tr><td>7.</td><td>Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)</td><td colspan="2">Certificate</td></tr>
<tr><td>8.</td><td>Brief Description of the Qualification</td><td colspan="2">A Telecom Rigger – 5G and Legacy Networks works under supervision to assist in the installation, maintenance, upgrading, and dismantling of telecom equipment on towers and other structures. The role involves using rigging techniques and installation skills to ensure the safe and efficient handling of telecom infrastructure, including cabling and related components.</td></tr>
<tr><td>9.</td><td>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</td><td colspan="2">a. Entry Qualification & Relevant Experience:
<table>
<tr><th>S. No.</th><th>Academic/Skill Qualification (with Specialization - if applicable)</th><th>Required Experience (with Specialization - if applicable)</th></tr>
<tr><td>1.</td><td>10th Grade Pass</td><td></td></tr>
<tr><td>2.</td><td>8th Grade Pass</td><td>3 years of relevant experience n the operations and maintenance of passive infrastructure</td></tr>
<tr><td>3.</td><td>Previous relevant Qualification of NSQF Level 2.5</td><td>1.5 years of experience n the operations and maintenance of passive infrastructure</td></tr>
</table>
b. Age: NA</td></tr>
<tr><td>10.</td><td>Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))</td><td>14</td><td>11. Common Cost Norm Category (I/II/III) (wherever applicable): I</td></tr>
<tr><td>12.</td><td>Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)</td><td colspan="2">NA</td></tr>
</table>

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<table>
<tr><td>13.</td><td>Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</td><td>☐Offline ☐Online ☒Blended
<table>
<tr><th>Training Delivery Modes</th><th>Theory (Hours)</th><th>Practical (Hours)</th><th>OJT Mandatory (Hours)</th><th>OJT Recommended (Hours)</th><th>Total (Hours)</th></tr>
<tr><td>Classroom (offline)</td><td>120</td><td>180</td><td>120</td><td></td><td rowspan="2">420</td></tr>
<tr><td>Online</td><td>120</td><td></td><td></td><td></td></tr>
</table>
(Refer Blended Learning Annexure for details)</td></tr>
<tr><td>14.</td><td>Aligned to NCO/ISCO Code/s (if no code is available mention the same)</td><td>NCO-2015/7422.0802</td></tr>
<tr><td>15.</td><td>Progression path after attaining the qualification (Please show Professional and Academic progression)</td><td>Telecom Rigger - 5G and Legacy Networks (Level 3) → Infrastructure Technician - 5G Networks (Level 4)</td></tr>
<tr><td>16.</td><td>Other Indian languages in which the Qualification & Model Curriculum are being submitted</td><td>Hindi</td></tr>
<tr><td>17.</td><td>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</td><td>☐ Yes ☒ No URLs of similar Qualifications:</td></tr>
<tr><td>18.</td><td>Is the Job Role Amenable to Persons with Disability</td><td>☒ Yes ☐ No
If “Yes”, specify applicable type of Disability: Motor Impairment, Hearing Impairments, Speech and Language Disorders</td></tr>
<tr><td>19.</td><td>How Participation of Women will be Encouraged</td><td>Encouraging the participation of women in the role of Telecom Rigger - 5G and Legacy Networks can be achieved through strategies that promote diversity, inclusivity, and gender equality. This includes offering targeted training and skill development programs tailored for female candidates interested in telecom rigging. Additionally, fostering a workplace culture that prioritizes safety, respect, and inclusivity—free from harassment or discrimination—is essential to ensuring equal opportunities for women in the telecom sector.</td></tr>
<tr><td>20.</td><td>Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)</td><td>☒ Yes ☐ No
NOS: TEL/N9105</td></tr>
<tr><td>21.</td><td>Is Qualification Suitable to be Offered in Schools/Colleges</td><td>Schools ☐ Yes ☐ No Colleges ☒ Yes ☐ No</td></tr>
<tr><td>22.</td><td>Name and Contact Details of Submitting / Awarding Body SPOC
(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</td><td>Name: Mr. Praveen Sirohi
Email: ceo@tsscindia.com Contact No.: 0124-4148029
Website: www.tsscindia.com</td></tr>
<tr><td>23.</td><td>Final Approval Date by NSQC: 08-05-2025</td><td>24. Validity Duration: 3 years</td><td>25. Next Review Date: 30-04-2028</td></tr>
</table>

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Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

***Th.**-Theory **Pr.**-Practical **OJT**-On the Job Training **Man.**-Mandatory **Rec.**-Recommended **Proj.**-Project*

S. No	NOS/Module Name	NOS/Module Code & Version *(if applicable)*	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) *(if applicable)*
1.	Assist in the Installation of Telecom Equipment	TEL/N6310, v3.0	Core	3.0	5	30	70	50	-	150	30	50	-	20	100	25
2.	Assist in the Maintenance, Upgrade and Decommissioning of Telecom Equipment and Sites	TEL/N6323, v2.0	Core	3.0	4	30	60	30	-	120	30	50	-	20	100	25
3.	Follow the Occupational Health and Safety Instructions during Tower Climbing	TEL/N6246, v2.0	Core	4.0	3	20	30	40	-	90	30	50	-	20	100	20
4.	Follow Sustainable Practices in Telecom Infrastructure Installation	TEL/N9105, v1.0	Core	4.0	1	10	20	-	-	30	30	50	-	20	100	20
5.	Employability Skills (30 Hours)	DGT/VSQ/N0101, v1.0	Non-Core	2.0	1	30	-	-	-	30	20	30	-	-	50	10
Duration (in Hours) / Total Marks					14	120	180	120	-	420	140	230	-	80	450	100

Assessment - Minimum Qualifying Percentage

*Please specify **any one** of the following:*

Minimum Pass Percentage – Aggregate at qualification level: 50 % *(Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)*

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Minimum Pass Percentage – NOS/Module-wise: __-__% *(Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)*

Section 3: Training Related

1.	**Trainer's Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)*	**Educational Qualification:** Graduate in any discipline, preferably Telecom/ Electronics/ IT and other related domains. **Industry & Training Experience:** Minimum 5 years of experience of industry in the 5G Legacy Networks. **Certification:** "Trainer" mapped to the Qualification Pack "MEP/Q2601, 3.0". Minimum accepted score is 80% aggregate.
2.	**Master Trainer's Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)*	**Educational Qualification:** Graduate in any discipline, preferably Telecom/ Electronics/ IT and other related domains. **Industry & Training Experience:** Minimum 7 years of industry experience in the 5G Legacy Networks. **Certification:** "Master Trainer" mapped to the Qualification Pack "MEP/Q2602, 3.0". Minimum accepted score is 90% aggregate.
3.	**Tools and Equipment Required for Training**	☐Yes ☐No (*If "Yes", details to be provided in Annexure)*
4.	**In Case of Revised Qualification, Details of Any Upskilling Required for Trainer**	NA

Section 4: Assessment Related

1.	**Assessor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	**Educational Qualification:** Graduate in any discipline, preferably Telecom/ Electronics/ IT and other related domains. **Industry & Training Experience:** Minimum 5 years of experience of industry in the 5G Legacy Networks. **Certification:** "Assessor" mapped to the Qualification Pack "MEP/Q2701, v3.0". Minimum accepted score is 80% aggregate.
2.	**Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	**Educational Qualification:** Graduate in any discipline, preferably Telecom/ Electronics/ IT and other related domains. **Industry & Training Experience:** Minimum 5 years of experience of industry in the 5G Legacy Networks. **Certification:** "Assessor" mapped to the Qualification Pack "MEP/Q2701, v3.0". Minimum accepted score is 80% aggregate.

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3.	**Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	**Educational Qualification:** Graduate in any discipline, preferably Telecom/ Electronics/ IT and other related domains. **Industry & Training Experience:** Minimum 7 years of experience of industry in the 5G Legacy Networks. **Certification:** "Lead Assessor" mapped to the Qualification Pack "MEP/Q2702, v3.0" Minimum accepted score is 90% aggregate.
4.	**Assessment Mode** *(Specify the assessment mode)*	Offline/Online
5.	**Tools and Equipment Required for Assessment**	☒ Same as for training ☐ Yes ☐ No *(details to be provided in Annexure-if it is different for Assessment)*

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	**Latest Skill Gap Study (not older than 2 years) (Yes/No):** NA
2.	**Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):** NA
3.	**Government /Industry initiatives/ requirement (Yes/No):** NA
4.	**Number of Industry validation provided:** 21
5.	**Estimated nos. of persons to be trained and employed:** 3600
6.	**Evidence of Concurrence/Consultation with Line Ministry/State Departments:** *Approved* If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	**Annexure:** NCrF/NSQF level justification based on NCrF level/NSQF descriptors *(Mandatory)*	*Annexure 1*
2.	**Annexure:** List of tools and equipment relevant for qualification *(Mandatory, except in case of online course)*	*Annexure 2*
3.	**Annexure:** Detailed Assessment Criteria *(Mandatory)*	*Annexure 6*
4.	**Annexure:** Assessment Strategy *(Mandatory)*	*Annexure 7*
5.	**Annexure:** Blended Learning *(Mandatory, in case selected Mode of delivery is "Blended Learning")*	*NA*

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6.	**Annexure:** Multiple Entry-Exit Details *(Mandatory, in case qualification has multiple Entry-Exit)*	*NA*
7.	**Annexure:** Acronym and Glossary *(Optional)*	*Annexure 8*
8.	**Supporting Document:** Model Curriculum *(Mandatory – Public view)*	*Attached*
9.	**Supporting Document:** Career Progression *(Mandatory - Public view)*	*Attached*
10.	**Supporting Document:** Occupational Map *(Mandatory)*	*Attached*
11.	**Supporting Document:** Assessment SOP *(Mandatory)*	*Attached*
12.	**Any other document you wish to submit:**	*N0*

Annexure 1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	• Understanding the fundamental concepts of telecom infrastructure, including different types of towers such as Ground-Based Towers (GBT), Roof-Top Towers (RTT), and monopoles, and their role in communication networks. • Comprehensive knowledge of telecom equipment, including antennas, RF cables, fiber optics, base transceiver stations (BTS), and associated hardware components. • Awareness of network architecture for 5G and legacy systems, including how signals are transmitted and received through telecom towers. • Understanding of rigging techniques, including types of ropes, knots, pulleys, and harness systems used for safe installation and maintenance. • Knowledge of Line-of-Sight (LOS) analysis and how it impacts signal transmission and network performance. • Awareness of different maintenance strategies such as preventive, corrective, and predictive maintenance in telecom networks. • Familiarity with the dismantling and decommissioning process of telecom infrastructure, including the removal of outdated equipment.	A Telecom Rigger – 5G and Legacy Networks at NSQF Level 3 works under supervision to assist in the installation, maintenance, upgradation, and dismantling of telecom equipment on towers and other structures. The role involves applying basic rigging techniques, handling cabling and telecom components, and ensuring compliance with industry safety standards. Theoretical knowledge includes an understanding of tower types (GBT, RTT, monopoles), basic radio frequency (RF) principles, Line-of-Sight (LOS) checks, and environmental sustainability practices. The individual is also familiar with occupational health and safety guidelines for working at heights and basic documentation requirements for telecom site installations. By performing structured tasks with pre-defined processes, the Telecom Rigger's role aligns with NSQF Level 3, ensuring efficiency, compliance, and adherence to best practices in telecom infrastructure installation and maintenance.	3.0

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	• Understanding occupational health and safety protocols specific to telecom rigging, including risk assessment, personal protective equipment (PPE) usage, and emergency response planning. • Knowledge of environmental sustainability practices, including e-waste handling, hazardous material handling, and compliance with environmental regulations.		
Professional and Technical Skills/ Expertise/ Professional Knowledge	• Hands-on skills in assisting the installation of telecom equipment, including mounting antennas, aligning microwave dishes, and laying fiber optic cables. • Proficiency in using hand tools (wrenches, screwdrivers, pliers) and power tools (drills, impact drivers, cable testers) for telecom installation and maintenance. • Ability to work with rigging equipment such as winches, hoists, and slings to lift and secure heavy telecom components. • Competency in pre-climb safety checks, including checking anchor points, safety harnesses, lanyards, and climbing gear. • Skills in assisting preventive maintenance by inspecting, cleaning, and securing telecom equipment to ensure continued functionality. • Ability to assist in corrective maintenance by identifying faults, troubleshooting network issues, and replacing defective components. • Knowledge of the decommissioning process, including the safe removal, transportation, and disposal of telecom infrastructure components. • Ability to follow sustainable practices by segregating recyclable materials, disposing of hazardous waste responsibly, and adopting energy-efficient measures during installations. • Basic understanding of technical documentation, including installation manuals, maintenance logs, and regulatory compliance reports.	From a technical perspective, the Telecom Rigger demonstrates hands-on expertise in assisting with the installation, alignment, and cabling of telecom equipment. The role involves supporting preventive and corrective maintenance tasks to optimize network performance for both 5G and legacy systems. Additionally, the individual is trained to execute tower operations safely, ensuring the correct use of Personal Protective Equipment (PPE) and compliance with site safety guidelines. The ability to handle hazardous and e-waste in accordance with environmental standards also plays a crucial role in sustainable telecom infrastructure practices. These structured, supervised responsibilities demand a combination of technical proficiency, adherence to safety regulations, and effective coordination, making the role suitable for NSQF Level 3 classification.	3.0

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Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	• Ability to understand and follow technical instructions and work procedures as provided by senior engineers and supervisors. • Strong teamwork and coordination skills to ensure safe and efficient execution of telecom projects. • Problem-solving ability to address on-site challenges such as unexpected weather conditions, equipment malfunctions, or site-specific installation issues. • Effective verbal and written communication skills for interacting with team members, supervisors, and clients, as well as for maintaining basic reports and records. • Awareness of workplace discipline, ethics, and effective time usage to meet project deadlines and ensure compliance with industry standards. • Adaptability to work in various environments, including urban, rural, and remote locations, while maintaining productivity and safety. • Entrepreneurial mindset to explore opportunities in telecom infrastructure services, including subcontracting, freelance rigging, or setting up an independent telecom support business. • Understanding of industry best practices, quality assurance measures, and compliance with national and international telecom regulations.	Employment readiness for this role requires strong problem-solving abilities, adaptability to varying site conditions, and a collaborative approach to working in teams. The Telecom Rigger must demonstrate the ability to assist in troubleshooting, follow worksite protocols, and ensure timely completion of assigned tasks. Effective communication and coordination with senior technicians and site engineers are essential for seamless execution of telecom projects. Additionally, the role requires awareness of sustainable practices, enabling the individual to contribute to environmentally responsible telecom installations. By adhering to structured workflows and ensuring workplace safety, the Telecom Rigger is well-prepared for employment in the telecom sector, fulfilling the expectations of NSQF Level 3.	3.0
Broad Learning Outcomes/Core Skill	• Assist in the installation, maintenance, upgradation, and decommissioning of telecom equipment in a safe and efficient manner. • Learn to conduct tower inspections and follow safety guidelines to prevent workplace hazards and accidents. • Support preventive and corrective maintenance tasks, ensuring the proper functioning and longevity of telecom infrastructure. • Apply rigging techniques to handle and secure telecom components while maintaining structural stability. • Demonstrate knowledge of sustainable practices, including	The core learning outcomes of this role focus on practical proficiency in telecom equipment installation, maintenance, and safety compliance. The individual is trained to handle rigging equipment, conduct basic site inspections, and assist in the alignment and commissioning of telecom infrastructure. Furthermore, knowledge of occupational health and safety measures, effective documentation, and environmental compliance ensures a well-rounded skill set. The structured nature of tasks and the need for continuous adherence to predefined procedures reinforce the learning outcomes expected at NSQF Level 3.	3.0

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	effective handling of electronic waste and adhering to environmental policies. • Maintain records of installation, maintenance, safety inspections, and environmental compliance for reporting and auditing purposes. • Exhibit teamwork and collaboration skills to work effectively with engineers, technicians, and other crew members. • Enhance employability by learning professional skills such as problem-solving, adaptability, and communication.		
Responsibility	• Work under supervision while assisting in telecom installations, ensuring adherence to safety and quality standards. • Follow instructions from senior technicians and engineers to complete assigned tasks efficiently and safely. • Conduct pre-climb check and adhere to occupational health and safety measures to minimize risks. • Handle rigging tools and equipment responsibly to prevent accidents and ensure the stability of telecom structures. • Support site maintenance activities, including routine inspections, troubleshooting, and repair work. • Comply with environmental regulations by properly managing e-waste, hazardous materials, and adopting energy-efficient solutions. • Maintain clear and accurate documentation of work activities, safety protocols followed, and issues encountered during telecom operations. • Demonstrate reliability, accountability, and professionalism in all aspects of work, contributing to the overall efficiency and safety of telecom operations.	In terms of responsibility, the Telecom Rigger is accountable for assisting in telecom equipment installation and maintenance while ensuring strict compliance with safety standards. The individual plays a supporting role in preventive and corrective maintenance activities and contributes to the efficiency of telecom operations by following structured guidelines. Responsibilities also extend to proper documentation, coordination with team members, and adherence to environmental regulations. The requirement to perform supervised tasks while maintaining safety and operational efficiency justifies the classification of this role at NSQF Level 3.	3.0

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Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	Adjustable Wrench	Pieces	3
2.	Cable Cutters	Pieces	3
3.	Carabiners Connectors	Pieces	12
4.	Coaxial Cable	Ft	30
5.	Coaxial Connector	Pieces	12
6.	Crimping Pliers	Pieces	3
7.	Diagonal Pliers	Pieces	3
8.	Digital Tester	Pieces	3
9.	Harnesses	Pieces	6
10.	Helmet	Pieces	3
11.	Laptop	Pieces	3
12.	Laser Measuring & Impact Tools	Pieces	3
13.	Linesman Pliers	Pieces	3
14.	Marker	Pieces	3
15.	Mini Hacksaw	Pieces	3
16.	Modular & Coaxial Test Equipment	Pieces	3
17.	Optical Fibre Cable	Pieces	21
18.	PPE Kit	Pieces	3
19.	Projector	Pieces	3
20.	Radio Frequency (RF) Connector	Pieces	9
21.	Remote Radio Unit - RRU Frequency band	Pieces	3
22.	RF Safety	Pieces	6
23.	Safety Kit	Pieces	3
24.	Scissors & Knives	Pieces	3
25.	Screwdrivers	Pieces	3
26.	Solder	Pieces	3
27.	Soldering Iron	Pieces	3
28.	Spinner Handle	Pieces	3
29.	Tower Climbing Kits	Pieces	3
30.	Tower Mounted Amplifiers	Pieces	3
31.	Whiteboard	Pieces	3
32.	Wire & Cable Strippers	Pieces	3
33.	Wire Stripper	Pieces	3

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Whiteboard
2. Projector
3. Computer/Laptop
4. Chairs

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5. Tables
6. Whiteboard marker
7. Duster

Annexure 3: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile *(if available)*
1.	Ibus Network and infrastructure Pvt.Ltd.	TK Narayanan	Deputy General Manager Commercial	7th Floor Tower B, Vatika Towers Golf Crouse Road Sector 54 Gurugram, Haryana India 122011		tk.narayanan@ibusnetworks.com	
2.	ICAII Computer & IT Skill Enhancement Institute (ICSE)	Er. Kamaljeet Kumar Sharma	Managing Director	#2266 (Site No. 24), Phase 7/Sector 61, S.A.S Nagar (Mohali) 160062, Punjab (India)		contact@icseinstitute.com kksmhl@gmail.com	
3.	JRS Global Networks Pvt.Ltd.	Arvind Yadav	Asst. Account Manager Telecom	A 22, Sector-65 Noida, UP-201307		account3@jrsgl.com	
4.	Expert Consultant & Coach for Telecom Fibre Optics, FTTx and Broadband	Dr. Anuj Shrivastava	Ex Executive Director Indian Telecom Services	Ghaziabad, UP		srianujkumar@gmail.com	
5.	Jio Platforms Limited (Jio)	Abhijay Singh Sisodia	Senior Manager	Office-101, Saffron, Nr.Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad-380006 Gujarat		abhijay.sisodia@ril.com	
6.	Vodafone India Shared Service Private Limited	Manmohan Sharma	Deputy General Manager	0-4th floor, Cluster D, Wing 3, EON Free Zone, Kharadi, Pune, Maharashtra 411014		manmohan.sharma@vodafone.com	
7.	Teoco	Naman Khosla Abhijay Singh Sisodia	Technical Consultant	Infotech Center -6th floor, 14/2 Old Delhi Gurgaon Road, Dundahera, Gurgaon – 122016, India		naman.khosla@teoco.com	

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8.	Global Logic	Rashid Muhammad	Associate Manager	Plot No.7, Oxygen Business Park SEZ, Tower, 3, Noida-Greater Noida Expy, Sector 144, Noida, Uttar Pradesh 201304		rashid.muhammad@globallogic.com	
9.	Mahendra Technical Institute	Mahendra Brmukh	Chairman and Managing Director	1st Floor, 3/B M B Classic, Telco Road, Near Kailash Dairy, Chinchwad Station, Pune – 411019 Maharashtra, India		info.mtipune@gmail.com	
10.	Amazon	Anshul Gupta	Program Manager	Bangalore		anshlgu@amazon.com	
11.	Stealth Mode Startup Company	Avadh Gupta	Founder, Co-Founder & Investor	Pune		avadhmac@gmail.com	
12.	Ranitronics	Yakama Vijayasree Kumar	Founder & Technical Consultant	Villa 302, Namaha Rhythm, Road No. 1, Kavya Avenue, Bachupally, Hyderabad – 500090, Telangana		info@ranitronics.com	
13	Eco Works	Deepali Sinha Khetriwal	Founder & CEO	C-601, Kalpataru Regency Phase 1, Kalyani Nagar, Pune 411006		deepali@ecowork.international	
14	Himachal Futuristic Communications Limited (HFCL)	Amit Agarwal	VP PLM	8, Commercial Complex, Masjid Moth, Greater Kailash - 11, New Delhi - 110048, India		amit.agarwal@hfcl.com	
15	Tata Communication	Alka Asthana	Head of Regulatory Affairs	Next Gen Tower Outer Ring Road, GK-1, New Delhi – 110048		alka.asthanatelecom@gmail.com	
16	Reckitt Benckiser	Sachin Sharma	Demand Manager	Udyog Vihar, Phase V, Gurgaon, Haryana		sachin.sharma@rb.com	
17	Sycamore Informatics	Rahul Kumar Kaushik	Product Manager	No. 6, 2nd Floor, 2nd Main, Arekere, Off Bannerghatta Road, Bangalore 560076		rahul.kaushik@sycamoreinformatics.com	
18	Nokia	Saurabh Singh	Software Quality Engineer	L5 and L6 Building Manyata Embassy Business Park Outer Ring Road,		saurabh.9.singh@nokia.com	

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				Nagawara 560045			
19	Edge Telecom	Arun Singh	Senior Project Engineer	9th floor, ILD Trade Centre, 904, main, Badshahpur Sohna Rd Hwy, near Subhash Chowk, Gurugram, Haryana 122018		arun.singh@edgetelecom.org	
20	Conduent	Prince Jain	Sr. Business Analyst	Plot No. 20, Candor Tech Space, Noida 201304		prince.jain@conduent.com	
21	Artificial Intelligence Technologies	Rohit Kumar Sharma	Manager – Development	A-21, sector 4, Block A, Kailash Colony, Greater Kailash, New Delhi,		rohit.sharma@aituniversal.com	
22	Ecom Express.in	Shekhar Poswal	Senior QA L1	10th Floor, Ambience Corporate Tower II, Ambience Island, Gurugram 122001		Shekhar.p@ecomexpress.in	
23	Paarminder Electronics Process Consultancy	Paarminder Singh	Consultant	New Delhi		singhpaarminder@gmail.com	
24	Senryaku Consulting	Udit Kaushik	Co-founder	Senryaku Management Private Limited Address: UTC031, DLF The Ultima, Sector 81, Gurugram, HR 122004		udit.kau@gmail.com	
25	Sopra Steria	Rikan Singh Tomar	Team Leader	Plot No. 20 & 21, Seaview Special Economic Zone, Building 4, Sector 135, Noida, Uttar Pradesh 201304		rikan.singh@soprasteria.com	

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Annexure 4: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2025	1080	756	54	18	54	18
2026	1080	756	54	18	54	18

2027	1440	1008	72	34	72	34

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
4.0	April 2023 to March 2024	240	181	177									
4.0	April 2024 to March 2025	2639	1305	1257									

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

1.
2.

Content availability for previous versions of qualifications:

☐ Participant Handbook ☐ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☐ Any Other:

Languages in which Content is available:

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Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET "Guidelines for Blended Learning for Vocational Education, Training & Skilling" available on:
https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☒Theory/ Lectures - Imparting theoretical and conceptual knowledge	LMS Portal- TSSC Telco Learning Portal will be utilized with online content/virtual lectures (Telcolearning.com)	100:100

2	☒Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	LMS Portal- TSSC Telco Learning Portal will be utilized with online content/virtual lectures (Telcolearning.com)	100:100
3	☐Showing Practical Demonstrations to the learners		
4	☐Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☐Tutorials/ Assignments/ Drill/ Practice		
6	☐Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☐On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure 6: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TEL/N6310: Assist in the Installation of Telecom Equipment	*Determine the scope of work*	*3*	*9*	*-*	*2*
	PC1. determine the scope of installation work by coordinating with the supervisor and commissioning engineers	1	3	-	0.5
	PC2. analyse the relevant blueprints, schematics and as-built site plan to determine the work requirements	1	3	-	0.5
	PC3. assist the supervisor/field manager by providing appropriate inputs and feedback regarding site conditions and installation as required, to help achieve the scope of work	1	3	-	1
	Prepare for the installation of telecom equipment	*3*	*6*		*2*
	PC4. check the availability and condition of required installation material, tools and equipment, and Personal Protection Equipment (PPE)	1	2	-	0.5
	PC5. report and replace damaged or faulty tools, materials, or safety equipment through co-ordination with the supervisor to get them replaced	1	2	-	0.5
	PC6. assist in preparing Radio Frequency (RF) connector and jumper and assembling the relevant telecom equipment for installation, following the supervisor's instructions	1	2	-	1
	Assist in the installation of tower equipment	*16*	*20*	*-*	*11*
	PC7. assemble antennas, waveguides, and coaxial connectors as per supervisor's instructions	0.5	1	-	1
	PC8. assist in erecting and securing telecom structures (e.g. towers, monopoles, masts, and cable trays) for equipment installation	1	1	-	1
	PC9. assist in the installation of antennas, feeders, microwave dishes, mast head amplifiers, and ancillary equipment following appropriate safety measures	0.5	1	-	0.5
	PC10. install transmission components (antenna mounts, surge arrestors, eNodeB, gNodeB, transmission lines, connectors, TMAs, CDU) as instructed	1	1	-	0.5
	PC11. assist in setting the correct azimuth, elevation, angle, and alignment of	1	1	-	0.5

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	transmission equipment				
	PC12. install feeder cables, coaxial cables, and high jumpers on towers, masts, rooftops, and building-mounted antennas	0.5	1	-	0.5
	PC13. assist in installing RF antenna systems and external RF hardware (RRUs, TMAs, combiners, microwave dishes)	1	1	-	0.5
	PC14. assist in the installation of microwave antennas, including parabolic (1-15 ft), VHF, and UHF antennas	1	1	-	0.5
	PC15. install, connect, and test underground/above-ground grounding systems per supervisor's instructions	1	1	-	0.5
	PC16. use coaxial connectors and preparatory tools as per manufacturer guidelines	1	1	-	0.5
	PC17. measure antenna alignment (azimuth, tilt, roll, height) using alignment tools and adjust as per RF engineer's instructions	0.5	1	-	0.5
	PC18. perform bird-proofing and waterproofing of connectors	1	1	-	0.5
	PC19. assist in installing, terminating, earthing, labeling, and testing coaxial, Ethernet, feeder, and optical fiber cables	1	1	-	0.5
	PC20. assist in the installation and testing of Outdoor Units (ODUs), splitters, and Customer Premises Equipment (CPE)	1	1	-	0.5
	PC21. check the 3G/4G/5G wireless system is installed per approved design and is operational	0.5	2	-	0.5
	PC22. use compass, GPS receiver, range finder, and other required tools as instructed	1	1	-	0.5
	PC23. assist in labelling, grounding, and conducting sweep testing	0.5	1	-	0.5
	PC24. carry out Passive Intermodulation (PIM) and sweep testing under supervision	1	1	-	0.5
	PC25. assist technicians and Instrumentation & Control (I&C) engineers in rectifying installation issues	1	1	-	1
	Assist in performing Line of Sight (LOS) check	*3*	*6*	*-*	*2*
	PC26. assist in conducting LOS checks to prevent signal drop or termination	1	2	-	0.5
	PC27. identify potential causes of signal loss (e.g., faulty cables, incorrect network configuration, device failure)	1	2	-	0.5
	PC28. follow corrective measures to restore LOS and mitigate obstructions (e.g., radio noise, mechanical interference)	1	2	-	1
	Assist in shelter room installations	*3*	*5*	*-*	*2*
	PC29. assist shelter room installations as per supervisor's instructions	1	1	-	0.5
	PC30. perform cabling and conduct tests to verify equipment functionality	1	2	-	0.5
	PC31. assist in troubleshooting and resolving equipment malfunctions	1	2	-	1
	Assist in completing documentation	*2*	*4*		*1*
	PC32. assist in collecting and document equipment details for tower installations	1	2	-	0.5
	PC33. assist in preparing survey reports and documentation for client handover	1	2	-	0.5
	Total Marks	**30**	**50**	**-**	**20**
TEL/N6323: Assist in the Maintenance, Upgrade and Decommissioning of Telecom Equipment and Sites	*Assist in carrying out preventive maintenance*	*10*	*16*	*-*	*7*
	PC1. check telecom towers, structures, and components for corrosion, wind-induced vibrations, or mechanical damage	1	3	-	1
	PC2. check and secure bolts, brackets, and structural fasteners to ensure equipment stability	2	2	-	1
	PC3. verify the protective casing of telecom equipment and identify signs of wear,	2	3	-	1

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	cracks, or damage				
	PC4. replace defective casings, connectors, or mounts as per standard operating procedures	2	2	-	1
	PC5. identify and correct misalignment of antennas, microwave dishes, and feeder cables	2	3	-	1
	PC6. follow the standard preventive maintenance checklist to ensure compliance with maintenance schedules	1	3	-	2
	Assist in carrying out corrective maintenance and site upgrade	*16*	*22*	*-*	*11*
	PC7. assist in conducting visual and physical audits of rigging installations, antennas, and support structures	2	2	-	1
	PC8. check the operational status of telecom transmission lines, RRUs, power units, and backup systems	1	2	-	1
	PC9. use appropriate safety gear and tools, such as tower ladders, boom lifts, and harnesses, to access telecom structures	1	2	-	1
	PC10. identify and report damage to fiber-optic cables, hybriflex cables, and waveguides	2	2	-	0.5
	PC11. assist in measuring and troubleshooting signal loss or interference using Distance-To-Fault (DTF) analyzers	2	2	-	1
	PC12. assist in installing or replacing 3G/4G/5G network components, as per site requirements	2	2	-	0.5
	PC13. carry out regular maintenance of telecom equipment and structures using the appropriate maintenance tools and equipment	1	1	-	0.5
	PC14. handle and organize cables, jumpers, and accessories for structured and safe installations	2	4	-	4
	PC15. assist in the maintenance and upgrade of telecom structures, such as steel towers, poles, masts and cable tray installations	1	2	-	0.5
	PC16. assist in upgrading existing wireless telecom sites and equipment, as per the requirement	1	2	-	0.5
	PC17. assist in documenting maintenance and repair activities in logs or digital systems	1	1	-	0.5
	Assist in decommissioning and recovery of telecom equipment	4	12	-	2
	PC18. assist in dismantling antennas, panel mounts, feeder cables, and ancillary telecom components	1	4	-	0.5
	PC19. recover decommissioned telecom equipment and cabling, including panel antennas, head frames, hybriflex cables, feeder cables, earthing, cable trays, Remote Radio Units (RRUs), etc.	1	3	-	0.5
	PC20. assist in decommissioning and dismantling redundant telecom equipment, cabling and structures, following technical and safety guidelines	1	2	-	0.5
	PC21. follow site decommissioning plans, ensuring minimal disruption to existing network operations	1	3	-	0.5
	Total Marks	**30**	**50**	**-**	**20**
TEL/N6246: Follow the Occupational Health and	*Conduct pre-climb tower inspection*	*6*	*10*	*-*	*6*
	PC1. conduct a visual assessment of the tower using binoculars to check for loose or missing hardware, rust, or structural damage, and ensure necessary repairs are	1	2	-	1

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Safety Instructions during Tower Climbing	completed before climbing				
	PC2. identify and mitigate climbing obstructions and hazards, such as bird nests, insect infestations, or external attachments	1	2	-	1
	PC3. inspect turnbuckles for proper installation and ensure guy wires are tensioned within recommended limits for guyed towers	1	2	-	1
	PC4. examine guy preforms, thimbles, and anchor points for signs of corrosion, fraying, or mechanical damage	1	2	-	1
	PC5. verify the tower's verticality using a plumb line or inclinometer to detect structural misalignment due to environmental or load stress	1	1	-	1
	PC6. report identified tower defects to the relevant authority and confirm corrective actions are implemented before proceeding with climbing tasks	1	1	-	1
	Check safety equipment and assess work site conditions	*12*	*20*	*-*	*5*
	PC7. inspect ladders, hoisting and rigging equipment, and essential tools to confirm operational readiness and compliance with safety standards	2	3	-	0.5
	PC8. check the condition and availability of Personal Protective Equipment (PPE), including a full-body harness, lanyards, climbing helmets, gloves, and anti-slip boots	2	3	-	0.5
	PC9. verify that a fully stocked first aid kit is accessible at the work site	1	3	-	0.5
	PC10. measure radio frequency (RF) exposure levels using an RF detector to ensure compliance with regulatory limits	1	2	-	0.5
	PC11. identify potential electrical hazards, including proximity to high-voltage power lines, and coordinate necessary precautions	1	2	-	0.5
	PC12. collaborate with relevant personnel to conduct a Job Hazard Analysis (JHA) and formulate an Emergency Action Plan (EAP)	1	2	-	0.5
	PC13. identify and report unsafe conditions at the work site to the appropriate authority and document corrective actions taken	1	2	-	0.5
	PC14. assess weather conditions using meteorological data and avoid work during thunderstorms, high winds, or adverse environmental conditions	1	1	-	0.5
	PC15. measure wind velocity using an anemometer and ensure work is conducted within permissible wind speed limits	1	1	-	0.5
	PC16. ensure vehicles, machinery, and equipment are positioned at a safe distance from tower structures and live power lines	1	1	-	0.5
	Execute tower operations following health and safety protocols	*12*	*20*	*-*	*9*
	PC17. register at the work site and adhere to safety guidelines before commencing tower climbing	1	2	-	0.5
	PC18. secure a full-body harness to designated anchor points and maintain 100% tie-off at all times	1	2	-	0.5
	PC19. utilize a safety cable climb system or double lanyards while ascending, descending, and moving on the tower	1	3	-	0.5
	PC20. use appropriate PPE as per manufacturer guidelines to ensure maximum protection	1	3	-	0.5
	PC21. follow standard tower climbing procedures to prevent falls, slips, or unexpected incidents	1	3	-	0.5
	PC22. maintain continuous communication with the ground crew using a two-way	1	1	-	0.5

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	radio				
	PC23. report any health impairments, such as dizziness or fatigue, and cease tower work if under the influence of medication that may affect concentration	1	1	-	1
	PC24. work at a safe distance from live power lines or coordinate with authorities to de-energize electrical lines when necessary	1	1	-	1
	PC25. place appropriate warning signs near live electrical zones to alert coworkers and prevent accidents	1	1	-	1
	PC26. ensure compliance with industry safety regulations and worksite protocols throughout the climbing operation	1	1	-	1
	PC27. administer basic first aid for injuries and medical emergencies at the worksite	1	1	-	1
	PC28. assist in preparing incident reports by providing accurate details about workplace hazards, injuries, or accidents	1	1	-	1
	Total Marks	**30**	**50**	**-**	**20**
TEL/N9105: Follow sustainable practices in telecom infrastructure installation	*Segregate recyclable and refurbishable components*	*6*	*12*	*-*	*6*
	PC1. identify telecom components suitable for recycling or refurbishment	2	4	-	2
	PC2. sort electronic and non-electronic waste based on disposal protocols	2	4	-	2
	PC3. label and store recyclable and refurbishable components separately	2	4	-	2
	Dispose of waste	*6*	*10*	*-*	*5*
	PC4. follow approved procedures for the safe disposal of hazardous and non-hazardous waste	2	4	-	2
	PC5. coordinate with authorized e-waste recycling units or certified disposal agencies	1	3	-	2
	PC6. handle batteries, cables, and electronic circuits safely to prevent environmental hazards	1	3	-	1
	Use Energy-Efficient Methods	*6*	*10*	*-*	*3*
	PC7. select and use energy-efficient tools and equipment during telecom installations	2	4	-	1
	PC8. apply best practices to minimize energy consumption	2	3	-	1
	PC9. position and install telecom infrastructure to optimize efficiency and sustainability	2	3	-	1
	Follow environmental standards and compliance guidelines	*8*	*12*	*-*	*4*
	PC10. adhere to national and international environmental regulations for telecom infrastructure installation	2	3	-	1
	PC11. maintain records of waste disposal, recycling, and sustainability measures	2	3	-	1
	PC12. assist in periodic audits to assess compliance with green standards	2	3	-	1
	PC13. follow workplace sustainability protocols and report non-compliance	2	3	-	1
	Guide team members	*4*	*6*	*-*	*2*
	PC14. guide team members on sustainable telecom installation guidelines and practices	2	3	-	1
	PC15. encourage environmentally responsible work habits	2	3	-	1
	Total Marks	**30**	**50**	**-**	**20**
DGT/VSQ/N0101: Employability Skills (30 Hours)	*Introduction to Employability Skills*	*1*	*1*	*-*	*-*
	PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
	Constitutional values – Citizenship	*1*	*1*	*-*	*-*

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	PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
	Becoming a Professional in the 21st Century	*1*	*3*	-	-
	PC3. explain 21st Century Skills such as Self- Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
	Basic English Skills	*2*	*3*	-	-
	PC4. speak with others using some basic English phrases or sentences	-	-	-	-
	Communication Skills	*1*	*1*	-	-
	PC5. follow good manners while communicating with others	-	-	-	-
	PC6. work with others in a team	-	-	-	-
	Diversity & Inclusion	*1*	*1*	-	-
	PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
	PC8. report any issues related to sexual harassment	-	-	-	-
	Financial and Legal Literacy	*3*	*4*	-	-
	PC9. use various financial products and services safely and securely	-	-	-	-
	PC10. calculate income, expenses, savings etc.	-	-	-	-
	PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
	Essential Digital Skills	*4*	*6*	-	-
	PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
	PC13. use internet and social media platforms securely and safely	-	-	-	-
	Entrepreneurship	*3*	*5*	-	-
	PC14. identify and assess opportunities for potential business	-	-	-	-
	PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
	Customer Service	*2*	*2*	-	-
	PC16. identify different types of customers	-	-	-	-
	PC17. identify customer needs and address them appropriately	-	-	-	-
	PC18. follow appropriate hygiene and grooming standards	-	-	-	-
	Getting ready for apprenticeship & Jobs	*1*	*3*	-	-
	PC19. create a basic biodata	-	-	-	-
	PC20. search for suitable jobs and apply	-	-	-	-
	PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
	Total Marks	**20**	**30**	-	-
Grand Total		**140**	**230**		**80**

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Annexure 7: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

Mention the detailed assessment strategy in the provided template.

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
- 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 levels 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
- Assessor must be ToA certified & trainer must be ToT Certified
- 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:

- Surprise visit to the assessment location
- Random audit of the batch
- Random audit of any candidate

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored

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- 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

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.

Annexure 8: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training
TSSC	Telecom Sector Skill Council
TRAI	Telecom Regulatory Authority of India
GBT	Ground-Based Tower
RTT	Roof-Top Tower
LOS	Line-of-Sight
PPE	Personal Protective Equipment
OHS	Occupational Health and Safety
RF	Radio Frequency
BTS	Base Transceiver Station
BBU	Baseband Unit
RRU	Remote Radio Unit
e-Waste	Electronic Waste
OJT	On-the-Job Training
PM	Preventive Maintenance
CM	Corrective Maintenance
EMS	Environmental Management System
DC	Direct Current

Glossary

Term	Description

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National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf

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