QUALIFICATION FILE

Line Assembler - Telecom Products

☒ 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

1.	**Qualification Name**	**Line Assembler - Telecom Products**	
2.	**Sector/s**	**Telecom**	
3.	**Type of Qualification:** ☐ **New** ☒ **Revised** ☐ **Has Electives/Options** ☐ **OEM**	**NQR Code & version of existing/previous qualification:** *(2022/TEL/TSSC/07013, V4.0)*	**Qualification Name of existing/previous version:** Line Assembler - Telecom Products
4.	**a. OEM Name** **b. Qualification Name** (*Wherever applicable)*		
5.	**National Qualification Register (NQR) Code &Version** (*Will be issued after NSQC approval)*	QG-03-TL-04087-2025-V2-TSSC	**6. NCrF/NSQF Level:** *3.0*
7.	**Award (Certificate/Diploma/Advance Diploma/ Any Other** *(Wherever applicable specify multiple entry/exits also & provide details in annexure)*	Certificate	
8.	**Brief Description of the Qualification**	A Line Assembler – Telecom Products is responsible for assembling handsets and telecom equipment at various stages of the production or assembly line, following predefined processes and industry standards. The role involves assembling or fitting pre-assembled electronic PCB boards, along with relevant mechanical and electrical components, onto a metal or plastic chassis within an enclosure. This includes attaching the top cover and securing all related hardware components, such as screws, using appropriate tools like electric or pneumatic screwdrivers. The individual is also responsible for following health and safety standards like ESD-safe procedures and applicable sustainability practices.	
9.	**Eligibility Criteria for Entry for Student/Trainee/Learner/Employee**	**a. Entry Qualification & Relevant Experience:**	

S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)
1.	10th Grade Pass	
2.	8th Grade Pass	3 years of relevant experience in telecom production
3.	Previous relevant Qualification of NSQF Level 2.5	1.5 years of relevant experience in telecom production

b. Age: NA

10.	**Credits Assigned to this Qualification, Subject to Assessment** *(as per National Credit Framework (NCrF))*	15	**11. Common Cost Norm Category (I/II/III)** *(wherever applicable)*: *I*
12.	**Any Licensing requirements for Undertaking Training on This Qualification** *(wherever applicable)*	NA	

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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 colspan="2">☐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>150</td><td></td><td rowspan="2">450</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 colspan="2">NCO-2015/3114.1403</td></tr>
<tr><td>15.</td><td>Progression path after attaining the qualification (Please show Professional and Academic progression)</td><td colspan="2">Line Assembler - Telecom Products (NSQF Level 3) → Production Line In-charge (NSQF Level 4)</td></tr>
<tr><td>16.</td><td>Other Indian languages in which the Qualification & Model Curriculum are being submitted</td><td colspan="2">Hindi</td></tr>
<tr><td>17.</td><td>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</td><td colspan="2">☐ Yes ☒ No URLs of similar Qualifications:</td></tr>
<tr><td>18.</td><td>Is the Job Role Amenable to Persons with Disability</td><td colspan="2">☒ 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 colspan="2">Encouraging the participation of women in the role of Line Assembler - Telecom Products in the telecom sector can be achieved through strategies that foster diversity, inclusivity, and gender equality. This can include offering targeted training and skill development programs for female candidates interested in these roles. Additionally, creating a workplace culture that is safe, respectful, and inclusive, and free from harassment or discrimination, is crucial for 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 colspan="2">☒ Yes ☐ No
NOS: TEL/N9107</td></tr>
<tr><td>21.</td><td>Is Qualification Suitable to be Offered in Schools/Colleges</td><td colspan="2">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 colspan="2">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.	Preparing Workspace for Assembly Operations	TEL/N2506, v4.0	Core	3.0	4	30	50	40	-	120	30	50	-	20	100	20
2.	Assembly Operations in Production Line	TEL/N2507, v4.0	Core	3.0	4	30	50	40	-	120	30	50	-	20	100	20
3.	Assembly of Mobile Phone Accessories	TEL/N2510, v1.0	Core	3.0	2	10	30	20	-	60	30	50	-	20	100	20
4.	ESD Safe Procedures and Practices	TEL/N2508, v4.0	Core	3.0	3	10	30	50	-	90	30	50	-	20	100	15
5.	Follow sustainability practices in telecom production and assembly line processes	TEL/N9107, v1.0	Core	4.0	1	10	20	-	-	30	30	50	-	20	100	15
6.	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					15	120	180	150	-	450	170	280	-	100	550	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.)*

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.)*

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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 Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. **Industry & Training Experience:** Minimum 5 years of experience of industry in the Optical Fiber Domain. **Certification:** "Trainer" mapped to the Qualification Pack "MEP/Q2601, v3.0". 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 Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. **Industry & Training Experience:** Minimum 7 years of industry experience in the Optical Fiber Domain. **Certification:** "Master Trainer" mapped to the Qualification Pack "MEP/Q2602, v3.0". 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 Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. **Industry & Training Experience:** Minimum 5 years of experience of industry in the Optical Fiber Domain. **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 Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. **Industry & Training Experience:** Minimum 5 years of experience of industry in the Optical Fiber Domain. **Certification:** "Assessor" mapped to the Qualification Pack "MEP/Q2701, v3.0". Minimum accepted score is 80% aggregate.
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 Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. **Industry & Training Experience:** Minimum 7 years of experience of industry in the Optical Fiber Domain.

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		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:** 9690
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*
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*

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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	**The Professional Theoretical/Practical knowledge required for the job role are:** **Preparing Workspace for Assembly Operations** • Arrange components/parts and assembly bench • Arrange tools and equipment required for assembly • Prepare workspaces for advanced assembly techniques **Assembly Operations in Production Line** • Assemble telecom devices/products • Use automation and smart manufacturing methods • Use digital tools for inventory and production management • Perform post assembly activities **Assembly of Mobile Phone Accessories** • Assemble mobile phone accessories • Perform quality inspection and testing • Carry out post-assembly activities **ESD Safe Procedures and Practices** • Comply with ESD processes and procedures **Work Safety Practices with Fiber Optics** • Safety practices for working with fiber optics during FTTH/X installations • Industry standards and guidelines **Follow sustainability practices in telecom production and assembly line processes**	A Line Assembler – Telecom Products at NSQF Level 3.0 requires a blend of theoretical and practical skills to operate in both routine and non-routine contexts. They must prepare workspaces, arrange components, and use advanced assembly techniques for telecom devices and mobile phone accessories. The role involves automation, smart manufacturing, and digital tools for inventory and production management. Assemblers ensure quality testing, compliance with ESD safety protocols, and adherence to fiber optics safety standards during FTTH/X installations. Sustainability is key, requiring proper waste segregation, recycling, and green manufacturing practices in line with environmental regulations. Given technical expertise, safety awareness, and sustainability compliance, this role aligns with NSQF Level 3.0, reflecting autonomy and specialized skill application.	3.0

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	• Identify and segregate recyclable, refurbishable, and hazardous components • Follow green manufacturing and sustainable assembly practices • Dispose of and recycle waste • Comply with environmental and sustainability regulations		
Professional and Technical Skills/ Expertise/ Professional Knowledge	• Know how to prepare workspaces, arrange components, and set up tools and equipment for telecom assembly operations. • Know how to assemble telecom devices, mobile phone accessories, and fiber optic components using advanced techniques and automation. • Know how to operate digital tools for inventory management, production tracking, and quality assurance in assembly processes. • Know how to perform post-assembly activities, including inspection, testing, and troubleshooting of telecom products. • Know how to comply with Electrostatic Discharge (ESD) safety procedures to protect sensitive telecom components. • Know how to follow safety protocols and industry standards while handling fiber optics, ensuring safe FTTH/X installations. • Understand sustainability practices, including segregation of recyclable, refurbishable, and hazardous materials in telecom assembly. • Understand green manufacturing principles and proper waste disposal methods to comply with environmental regulations. • Understand industry guidelines and regulatory requirements for telecom production, ensuring compliance with quality and safety norms. • Understand troubleshooting techniques for identifying and	A Line Assembler – Telecom Products requires a combination of theoretical knowledge and practical expertise to assemble, test, and maintain telecom devices and fiber optic components. The role involves workspace preparation, component arrangement, and advanced assembly techniques, including automation and digital tools for inventory and production management. Assemblers must ensure quality inspection, compliance with ESD safety protocols, and adherence to fiber optics safety standards during FTTH/X installations. Additionally, they play a key role in sustainability practices, such as waste segregation, recycling, and green manufacturing, in alignment with environmental regulations. By following industry standards, troubleshooting techniques, and regulatory guidelines, they contribute to efficient production, safe handling of telecom components, and environmentally responsible assembly processes. Hence, this role falls under Level 3.0.	3.0

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	resolving common issues in telecom device assembly and fiber optic installations.		
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	• Select appropriate tools, equipment, and materials for telecom assembly operations to ensure efficiency and quality. • Learn problem-solving skills to troubleshoot issues in telecom device assembly, fiber optic installations, and network maintenance. • Identify opportunities for process optimization, cost reduction, and efficiency improvement in telecom production and assembly. • Implement safety procedures, ESD protocols, and environmental sustainability practices in the workplace. • Evaluate quality standards and compliance requirements to maintain telecom product reliability and regulatory adherence. • Design workflow strategies to streamline production, reduce waste, and enhance assembly line efficiency. • Define standard operating procedures (SOPs) for telecom product assembly and maintenance tasks. • Establish effective communication and teamwork within the production environment to enhance productivity and problem-solving. • Develop an entrepreneurial mindset to explore business opportunities in telecom manufacturing, installation, and maintenance services. • Implement customer-centric approaches and innovative solutions to enhance telecom product functionality and service delivery.	Employment readiness and entrepreneurship skills for a Line Assembler – Telecom Products focus on technical expertise, process optimization, and professional growth. Assemblers must select appropriate tools, learn problem-solving strategies, and identify opportunities to enhance efficiency in telecom production. They should implement safety protocols, maintain quality standards, and design streamlined workflows. Understanding standard operating procedures, compliance requirements, and sustainability practices is essential for maintaining industry standards. Through effective communication, structured work processes, and an entrepreneurial mindset, assemblers can enhance their career prospects and contribute to the evolving telecom industry. Therefore, this role is considered at Level 3.0.	3.0
Broad Learning Outcomes/Core Skill	**The Broad Learning Outcomes/Core Skill are:** • Demonstrate proficiency in telecom product assembly, including workspace preparation, component arrangement, and use of specialized tools. • Apply advanced assembly techniques, automation, and digital tools for efficient production and inventory	The Line Assembler - Telecom Products role at NSQF Level 3 requires a practical, hands-on approach with a command of technical and theoretical skills in telecom product assembly. Assemblers must perform routine and non-routine tasks, including workspace preparation, component arrangement, quality inspection, and troubleshooting while ensuring compliance with safety, ESD, and environmental	3.0

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	management. • Perform quality inspection, troubleshooting, and post-assembly activities to ensure product reliability and compliance. • Follow safety procedures, ESD guidelines, and fiber optics handling protocols during FTTH/X installations. • Implement sustainability practices by segregating recyclable, refurbishable, and hazardous components in telecom assembly. • Adhere to environmental regulations, waste disposal methods, and green manufacturing principles. • Communicate effectively with team members, supervisors, and clients to ensure smooth workflow and issue resolution. • Interpret technical documents, standard operating procedures, and regulatory guidelines relevant to telecom assembly. • Learn problem-solving skills to address challenges in telecom production, fiber optic installations, and network maintenance. • Exhibit an entrepreneurial mindset by identifying opportunities for process optimization, cost reduction, and business growth in the telecom sector.	regulations. They should demonstrate effective communication, problem-solving abilities, and teamwork to enhance workflow efficiency. Additionally, their role involves limited independent decision-making under supervision, aligning with NSQF Level 3.0, which focuses on applying structured knowledge in familiar and predictable work environments.	
Responsibility	**The responsibilities are:** • Pre-installation checks and processes • Direct buried installation • Underground (duct) installation • Aerial installation • FTTx solutions • Network planning and design considerations • Check the availability of tools, spares, and advanced equipment • Prepare cables for splicing for new installations • Maintain and troubleshoot laid Optical Fiber Cables (OFCs) • Perform advanced splicing operations with	A Line Assembler – Telecom Products is responsible for assembling handsets and telecom equipment at various stages of the production or assembly line, following predefined processes and industry standards. The role involves assembling or fitting pre-assembled electronic PCB boards, along with relevant mechanical and electrical components, onto a metal or plastic chassis within an enclosure. This includes attaching the top cover and securing all related hardware components, such as screws, using appropriate tools like electric or pneumatic screwdrivers. The individual is also responsible for following health and safety standards like ESD-safe procedures and applicable sustainability practices.	3.0

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	automation and precision • Utilize advanced fiber testing tools and document results • Perform specialized splicing techniques for micro and nano fibers • Install passive FTTH/X components (Splitters) • Perform terminal connections (single incoming/multiple outgoing) • Conduct power and insertion loss tests • Work with GPON technologies, loss budgets, and advanced transmission mechanisms • Cable installation through cable trays (horizontal/vertical • Cable installation through conduits • Cable installation through false ceilings • Termination at ONT and TO • IoT and Smart Home Network Readiness • FTTH GPON Customer Installation • Triple-Play Services (High Speed Internet, VoIP, IPTV) • Cybersecurity considerations in FTTH/X installation • Internet of Everything (IoE) • Safety practices for working with fiber optics during FTTH/X installations • Industry standards and guidelines • Identify recyclable, reusable, and hazardous materials • Follow waste management, recycling, and disposal protocols • Optimize material and energy usage in cabling work • Comply with environmental and regulatory standards • Perform work as per quality standards • Maintain safe, healthy and secure working environment • Conserve material/energy/electricity • Use effective waste handling/recycling practices		

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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.	Weighing Scale	Pieces	1
2.	Vacuum Pick-Up Tools	Pieces	2
3.	Through-Hole Component Insertion Module (with SMT components mounted – reject PCBs)	Pieces	3
4.	Testing Jig (sample)	Pieces	1
5.	Stencil Sets & Racks	Pieces	2
6.	Squeezing Forceps	Pieces	4
7.	Strippers	Pieces	3
8.	Soldering Tip Polisher	Pieces	2
9.	Specification Charts (for critical components like ICs, Microphone, Ear piece, Connectors)	Pieces	1
10.	Soldering Gun (Temperature controlled) & iron tips	Pieces	2
11.	Solder Mask (PPE)	Pieces	4
12.	Schematics & Designs	Pieces	2
13.	Soldering Tester	Pieces	1
14.	RF Testing Instrument	Pieces	1
15.	Radial Lead Formation Tool	Pieces	1
16.	Preventive Do's & Don'ts Placards from Industry	Pieces	1
17.	PPE (ESD Proof)	Pieces	1
18.	PCB Cleaning Solution (IPA)	Pieces	1
19.	PCBA Pneumatic Tools	Pieces	2
20.	PCB Repair Kit	Pieces	2
21.	Master Design File	Pieces	1
22.	Model with Sub-Assemblies (Smartphone)	Pieces	2
23.	Model with Sub-Assemblies (Keypad Phone)	Pieces	2
24.	Lead Screws with Ultra-Fine Pitch	Pieces	10
25.	Liquid Dispensers (Liquid Flux, Epoxy)	Pieces	2
26.	Magnifying Lamp	Pieces	2
27.	Internal Quality Control (IQC)/ QMS /TQM Covering All Stages	Pieces	1
28.	Lead-Free Solder Paste (with / without flux)	Pieces	1
29.	IPC / IEC / CE Standard Documents	Pieces	1
30.	Hot Air Gun/ Blower	Pieces	1
31.	High Voltage Tester	Pieces	1
32.	Glue Stick Melter/ Guns	Pieces	1
33.	Foot Switch	Pieces	1
34.	Finger Cuts Full & Half Foot Switch	Pieces	5

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35.	ESD Wrist Strap	Pieces	1
36.	EMI / ROHS / WEEE Standard Documents	Pieces	1
37.	Electronic Components Storage Cabinet (Small, Medium, and Big - ESD Protective)	Pieces	1
38.	Electronics Components Forming Tool	Pieces	1
39.	Electric / Pneumatic Torque Screwdriver	Pieces	1
40.	Document Pads/ Files	Pieces	2
41.	Digital Multimeter	Pieces	2
42.	Dipliner	Pieces	1
43.	Components Tray/Bins/Strips Bobbin (All Sizes - ESD Protective)	Pieces	1
44.	Conveyor Pallet	Pieces	1
45.	Desoldering Pump	Pieces	2
46.	Component Former	Pieces	1
47.	Axial Lead Formation Tool	Pieces	1
48.	Axial Components Lead Cutting Tools	Pieces	1
49.	Anti-Electrostatic Floor	Pieces	3
50.	Apron (ESD Proof)	Pieces	3
51.	Adhesives and Cleaning Products	Pieces	1
52.	Air Driller / Miller / Puncher	Pieces	2
53.	5S Items, Charts, Checklists	Pieces	2

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Whiteboard
2. Projector
3. Computer/Laptop
4. Chairs
5. Tables
6. Whiteboard marker
7. Duster

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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	
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	

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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, Nagawara 560045		saurabh.9.singh@nokia.com	
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	

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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	

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	2907	2035	145	72	145	72
2026	2907	2035	145	72	145	72
2027	3876	2714	194	97	194	97

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	Dec 2021 to March 2022	718	579	578									
4.0	April 2022 to	-	-	-									

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	March 2023												
4.0	April 2023 to March 2024	718	154	81									
4.0	April 2024 to March 2025	2346	1828	1810									

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/N2506: Preparing Workspace for Assembly Operations	*Arrange components/parts and assembly bench*	*16*	*20*	*-*	*10*
	PC1. retrieve assembled electronic PCB boards, parts of enclosures like metal or plastic chassis, cover, accessories, hardware components like screws, cables and other related hardware components from stores as per work instructions and verify against inventory records	4	4	-	2
	PC2. interpret and confirm understanding of work and assembly instructions	2	3	-	2
	PC3. arrange the required assembly parts ergonomically for smooth assembly	2	3	-	2
	PC4. check all the assembly parts, including electronics assembled PCB boards, metal enclosures and other hardware items for defects, mismatches, or non-conformance and report the identified issues	3	3	-	2
	PC5. identify and segregate 5G-specific hardware for assembly tasks	3	4	-	1
	PC6. update inventory records using the ERP system to ensure material availability	2	3	-	1

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	Arrange tools and equipment required for assembly	*10*	*18*	*-*	*6*
	PC7. collect required tools and equipment as per work instructions	2	4	-	2
	PC8. check the calibration and compliance of measuring instruments and critical tools	2	4	-	1
	PC9. test tools and equipment for functionality and report malfunctions	2	3	-	1
	PC10. use IoT-enabled tools to monitor tool compliance and performance	2	4	-	1
	PC11. set up 3D printing workstations for prototyping and small-batch production	2	3	-	1
	Prepare workspaces for advanced assembly techniques	*4*	*12*	*-*	*4*
	PC12. set up and calibrate 3D printing equipment for operation	2	4		2
	PC13. ensure 3D-printed parts meet specifications and are defect-free	1	4	-	1
	PC14. follow best practices for using 3D-printed components in assembly	1	4	-	1
	Total Marks	**30**	**50**	**-**	**20**
TEL/N2507: Assembly Operations in Production Line	*Assemble telecom devices/products*	*10*	*15*	-	*8*
	PC1. check the availability of all the parts required for the assembly of Electronic PCB boards, metal/plastic enclosures, hardware components and all the other components, and tools as per assembly specifications	2	3	-	1
	PC2. ensure all required tools and equipment are operational and properly calibrated	2	3	-	1
	PC3. conduct pre-assembly safety compliance checks before starting operations	1	2	-	1
	PC4. arrange parts and sub-assemblies in the correct sequence for efficient workflow	1	2	-	1
	PC5. interpret technical diagrams, specifications, and schematics accurately	1	2	-	1
	PC6. handle components carefully, ensuring proper fitment using appropriate tools	1	1	-	1
	PC7. assemble components such as RFID tags, Wi-Fi, and Bluetooth modules using correct procedures, sequences, and tools for precision	1	1	-	1
	PC8. perform basic quality checks to verify correct assembly before moving to the next stage	1	1	-	1
	Use automation and smart manufacturing methods	*6*	*10*	-	*4*
	PC9. utilize IoT sensors to track all the items used in the assembly process to ensure placement accuracy and assembly line efficiency	2	3	-	1
	PC10. operate Robotic Process Automation (RPA) tools for automated pick-and-place assembly	2	2	-	1
	PC11. use machine vision systems for real-time quality inspection and defect detection	1	3	-	1
	PC12. use Augmented Reality (AR) tools for interactive training and troubleshooting of assembly processes	1	2	-	1
	Use digital tools for inventory and production management	*4*	*10*	-	*2*
	PC13. use ERP systems to track materials and schedule production	2	4	-	1
	PC14. log component usage accurately to maintain stock levels	1	3	-	0.5
	PC15. coordinate inventory management with production teams	1	3	-	0.5
	Perform post-assembly activities	*10*	*15*	-	*6*
	PC16. conduct intermediate and final compliance checks for assembly verification	2	4	-	1

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	PC17. secure the workstation by removing loose components and consumables post-assembly	2	4	-	1
	PC18. reconcile used components with issued inventory and document discrepancies	1	3	-	1
	PC19. follow store procedures for returning unused components and tools	1	1	-	1
	PC20. maintain proper documentation of completed work and inventory usage	1	1	-	1
	PC21. ensure hazardous and non-hazardous waste is disposed of safely in designated areas	2	1	-	0.5
	PC22. align assembly processes with ISO/IEC 9001 quality management and 27001 information security standards	1	1	-	0.5
	Total Marks	**30**	**50**	**-**	**20**
TEL/N2510: Assembly of Mobile Phone Accessories	*Assemble mobile phone accessories*	*10*	*20*	*-*	*8*
	PC1. assemble mobile phone accessories according to technical diagrams and process specifications	2	4	-	2
	PC2. ensure correct positioning and secure connection of electronic and mechanical parts during assembly	2	4	-	2
	PC3. use appropriate tools such as screwdrivers, crimping tools, ultrasonic welders, and automated assembly machines	2	4	-	2
	PC4. follow ESD-safe handling procedures to prevent static discharge damage to sensitive components	2	4	-	1
	PC5. follow automation and smart manufacturing techniques such as robotic assembly and AI-assisted quality checks	2	4	-	1
	Perform quality inspection and testing	*12*	*20*	*-*	*8*
	PC6. conduct basic visual inspections as per quality checklist for defects such as misalignment, loose connections, or surface damage	2	3	-	2
	PC7. use appropriate measuring tools such as calipers, multimeters, or gauges to verify dimensions and electrical properties	2	4	-	1
	PC8. test assembled accessories for electrical functionality, durability, and compliance with the applicable quality standards	2	3	-	2
	PC9. identify and rectify minor assembly errors, escalating critical issues to the supervisor	2	4	-	1
	PC10. use digital tools and ERP systems to track component usage and production progress	2	3	-	1
	PC11. conduct appropriate quality checks on the assembled accessories to ensure compliance with industry standards	2	3	-	1
	Carry out post-assembly activities	*8*	*10*	*-*	*4*
	PC12. follow standard procedures for packaging, labeling, and storing finished accessories to prevent damage	2	3	-	1
	PC13. document and report production outputs, quality issues, and inventory usage using digital tracking tools	2	3	-	1
	PC14. dispose of defective or rejected components following the applicable guidelines	2	2	-	1
	PC15. adhere to workplace safety and cleanliness guidelines throughout the process	2	2	-	1
	Total Marks	**30**	**50**	**-**	**20**

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TEL/N2508: ESD Safe Procedures and Practices	*Comply with ESD processes and procedures*	*30*	*50*	-	*20*
	PC1. follow safe work practices as per the ESD process and protocol	**3**	**5**	-	**2**
	PC2. ground all components in the work area	**3**	**5**	-	**2**
	PC3. use ESD tools/equipment (static voltage checker, wrist straps, shoe grounders, air ionizers, ionized air guns)	**4**	**7**	-	**3**
	PC4. remove non-essential items and equipment carrying electrostatic generating potential	**4**	**6**	-	**2**
	PC5. pack/unpack electronic components in compliance with ESD processes	**4**	**6**	-	**3**
	PC6. handle all semi-finished products after assembly operations using ESD-free trays and conveyor lines	**3**	**5**	-	**2**
	PC7. utilize machine vision systems to identify ESD safety violations and ensure compliance	**3**	**6**	-	**2**
	PC8. implement advanced grounding techniques to mitigate electrostatic risks	**3**	**5**	-	**2**
	PC9. ensure compliance with ISO 27001 standards for information security in ESD-sensitive operations	**3**	**5**	-	**2**
	Total Marks	**30**	**50**	**-**	**20**
TEL/N9107: Follow sustainability practices in telecom production and assembly line processes	*Identify and segregate recyclable, refurbishable, and hazardous components*	*6*	*10*	-	*5*
	PC1. inspect incoming and outgoing materials to identify recyclable, refurbishable, and hazardous components	1	2	-	1
	PC2. categorize telecom components such as PCBs, cables, batteries, and plastic casings for appropriate processing	1	2	-	1
	PC3. maintain an inventory of recyclable and hazardous materials to track waste management	1	2	-	1
	PC4. store e-waste separately and label it in accordance with Extended Producer Responsibility (EPR) guidelines	1	2	-	1
	PC5. identify and report any improper disposal practices to the designated authority	2	2	-	1
	Follow green manufacturing and sustainable assembly practices	*10*	*15*	-	*5*
	PC6. use energy-efficient equipment, tools, and automated systems to reduce carbon footprint	**2**	**3**	-	**1**
	PC7. follow low-emission soldering and lead-free assembly processes to minimize pollution	**2**	**3**	-	**1**
	PC8. optimize the use of materials, water, and electricity during production	**2**	**3**	-	**1**
	PC9. conduct regular maintenance and calibration of energy-efficient machinery to ensure optimal performance	2	3	-	1
	PC10. adopt ISO 14001 (Environmental Management System) compliance in production workflows	2	3	-	1
	Dispose of and recycle waste	*10*	*15*	-	*6*
	PC11. dispose of hazardous waste (e.g., lithium batteries, chemical residues) in accordance with environmental safety protocols	**2**	**3**	-	**1**

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	PC12. deposit non-hazardous, recyclable materials (e.g., plastics, aluminum, copper) in designated collection areas	**2**	**3**	-	**2**
	PC13. maintain documentation for waste disposal and recycling compliance audits	**2**	**3**	-	**1**
	PC14. conduct periodic waste audits to identify opportunities for further waste reduction	2	3	-	1
	PC15. coordinate with authorized e-waste recyclers to ensure proper processing and disposal	2	3	-	1
	Comply with environmental and sustainability regulations	*4*	*10*	*-*	*4*
	PC16. follow the applicable national and international environmental laws and regulations for telecom manufacturing	1	2	-	1
	PC17. participate in sustainability audits and assessments as per company policies	**1**	**3**	-	**1**
	PC18. check for adherence to sustainability guidelines and report deviations	1	3	-	1
	PC19. follow corrective actions based on environmental audits and assessments	1	2	-	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*	-	-
	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*	-	-

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	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		**170**	**280**	**-**	100

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.

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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
- 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.

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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
PCB	Printed Circuit Board
RPA	Robotic Process Automation
ERP	Enterprise Resource Planning
AR	Augmented Reality
IoT	Internet of Things
SMT	Surface Mount Technology
ESD	Electrostatic Discharge
EPR	Extended Producer Responsibility

Glossary

Term	Description
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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