

## QUALIFICATION FILE

### TELECOM GRAMEEN UDHYAMI

☒ 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: 4

Submitted By:

Submitting Body Name: Telecom Sector Skill Council

Submitting Body Contact Details:

Telephone: 0124-4148029

Email: tssc@tsscindia.com

## Table of Contents

Section 1: Basic Details .....	3
Section 2: Module Summary .....	5
NOS/s of Qualifications.....	5
Mandatory NOS/s:.....	5
Assessment - Minimum Qualifying Percentage.....	6
Section 3: Training Related.....	7
Section 4: Assessment Related.....	7
Section 5: Evidence of the need for the Qualification.....	7
Section 6: Annexure & Supporting Documents Check List.....	9
Annexure: Evidence of Level .....	10
Annexure: Tools and Equipment (Lab Set-Up) .....	12
Annexure: Industry Validations Summary .....	13
Annexure: Training & Employment Details .....	14
Annexure: Blended Learning .....	15
Annexure: Detailed Assessment Criteria .....	16
nnexure: Assessment Strategy .....	27
Annexure: Acronym and Glossary .....	28

## Section 1: Basic Details

1.	Qualification Name	Telecom Grameen Udhyami																						
2.	Sector/s	Telecom																						
3.	Type of Qualification: <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: (change to previous, once approved) NA	Qualification Name of existing/previous version: NA																					
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA																						
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-04-TL-00929-2023-V1-TSSC	6. NCrf/NSQF Level: 4																					
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	The individual in this job role will install, configure, and test CPE, Wi-Fi equipment, and OFCs for broadband access. They will also perform handset repair and conduct post-service testing. Additionally, as an entrepreneur (udhyami), they can establish a tech business offering diverse telecom, basic IT, and handset repair services in the village.																						
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	<p>a. Entry Qualification &amp; Relevant Experience:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Grade 12th Pass (All Streams)</td> <td>No Experience Required</td> </tr> <tr> <td>2.</td> <td>Completed 2nd year of 3-year diploma (after 10th)</td> <td>No Experience Required</td> </tr> <tr> <td>3.</td> <td>Pursuing 2nd year of 3-year regular Diploma (after 10<sup>th</sup>)</td> <td>No Experience Required</td> </tr> <tr> <td>4.</td> <td>11th Grade Pass</td> <td>1-year relevant experience</td> </tr> <tr> <td>5.</td> <td>10th Grade Pass</td> <td>2-year relevant experience</td> </tr> <tr> <td>6.</td> <td>Previous relevant Qualification of NSQF Level 3.0</td> <td>3 years relevant experience</td> </tr> </tbody> </table> <p>b. Age: 17 Years</p>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	Grade 12th Pass (All Streams)	No Experience Required	2.	Completed 2nd year of 3-year diploma (after 10th)	No Experience Required	3.	Pursuing 2nd year of 3-year regular Diploma (after 10 <sup>th</sup> )	No Experience Required	4.	11th Grade Pass	1-year relevant experience	5.	10th Grade Pass	2-year relevant experience	6.	Previous relevant Qualification of NSQF Level 3.0	3 years relevant experience
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																						
1.	Grade 12th Pass (All Streams)	No Experience Required																						
2.	Completed 2nd year of 3-year diploma (after 10th)	No Experience Required																						
3.	Pursuing 2nd year of 3-year regular Diploma (after 10 <sup>th</sup> )	No Experience Required																						
4.	11th Grade Pass	1-year relevant experience																						
5.	10th Grade Pass	2-year relevant experience																						
6.	Previous relevant Qualification of NSQF Level 3.0	3 years relevant experience																						

10.	<b>Credits Assigned to this Qualification, Subject to Assessment</b> (as per National Credit Framework (NCrF))	20	<b>11. Common Cost Norm Category (I/II/III)</b> (wherever applicable): I																						
12.	<b>Any Licensing requirements for Undertaking Training on This Qualification</b> (wherever applicable)	NIL																							
13.	<b>Training Duration by Modes of Training Delivery</b> (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>290:00</td> <td>190:00</td> <td>120:00</td> <td>-</td> <td>600:00</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)						Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	290:00	190:00	120:00	-	600:00	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																				
Classroom (offline)	290:00	190:00	120:00	-	600:00																				
Online																									
14.	<b>Aligned to NCO/ISCO Code/s</b> (if no code is available mention the same)	NCO-2015/7422.2201																							
15.	<b>Progression path after attaining the qualification</b> (Please show Professional and Academic progression)	<b>Vertical progression</b> NSQF Level 5 – Telecom Infrastructure Engineer/Outside Plant Fiber Installation, Testing and Commissioning Supervisor/Handset Repair - Sr. Executive/Broadband Supervisor <b>Horizontal progression</b> Handheld Devices (Handset & Tablet) Technician/Wireless Technician/Broadband Technician																							
16.	<b>Other Indian languages in which the Qualification &amp; Model Curriculum are being submitted</b>	Hindi																							
17.	<b>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:																							
18.	<b>Is the Job Role Amenable to Persons with Disability</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", specify applicable type of Disability:																							
19.	<b>How Participation of Women will be Encouraged</b>	Yes, Encouraging the participation of women is essential for promoting gender equality and ensuring that women have equal opportunities in various aspects of society. It is important to provide education, mentorship, and networking opportunities, as well as training and development programs. Flexible work arrangements and promoting successful women in Telecom Grameen Udhyami can also inspire and encourage women to pursue careers in this field. Creating a culture of inclusion and diversity can help women feel welcome and valued in Telecom Grameen Udhyami job roles, through policies and practices that support work-life balance, equal pay and promotion opportunities, and a safe and respectful workplace.																							
20.	<b>Are Greening/ Environment Sustainability Aspects Covered</b> (Specify the NOS/Module which covers it)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																							

21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
22.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Telecom Sector Skill Council Email: <a href="mailto:tssc@tsscindia.com">tssc@tsscindia.com</a> Contact No.: 0124-4148029 Website: <a href="https://www.tsscindia.com">https://www.tsscindia.com</a>
23.	Final Approval Date by NSQC: 31 Aug 2023	24. Validity Duration: 3 Years 25. Next Review Date: 31 Aug 2026

## 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 Man.-Mandatory Training Rec.-Recommended Proj.-Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/N SQF 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.	Introduction to Telecom Grameen Udhya	Bridge Module	-	4	1	15:00	15:00	00:00	00:00	30:00	-	-	-	-	-	-
2.	Handle hand and power tools relevant to construction electrical works	CON/N0602 Version 3.0	Core	4	1	15:00	15:00	00:00	00:00	30:00	30	70	-	-	100	10
3.	Wiring and installing equipment at different sites	TEL/N4122 Version 5.0	Core	4	3	30:00	30:00	30:00	00:00	90:00	30	60	-	10	100	10
4.	Splice Optical	TEL/N6400 Version 5.0	Core	4	2	30:00	20:00	10:00	00:00	60:00	35	55	-	10	100	10

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/N SQF 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)
5.	In-building FTTH/X Cabling	TEL/N4201 Version 4.0	Core	4	2	30:00	20:00	10:00	00:00	60:00	30	60	-	10	100	10
6.	Configure customer premises equipment and establish Broadband connectivity	TEL/N0112 Version 5.0	Core	4	3	30:00	30:00	30:00	00:00	90:00	40	50	-	10	100	10
7.	Troubleshoot and rectify faults	TEL/N0113 Version 4.0	Core	4	2	30:00	20:00	10:00	00:00	60:00	40	50	-	10	100	10
8.	Repair and test handsets	TEL/N2213 Version 3.0	Non-Core	4	3	30:00	30:00	30:00	00:00	90:00	35	50	-	15	100	10
9.	Provide techpreneurial Solutions in the Village	TEL/N4141 Version 1.0	Core	4	1	20:00	10:00	00:00	00:00	30:00	35	50	-	15	100	20
10.	Employability Skills (60 Hours)	DGT/VSQ/N0102: Version 1.0	Non-Core	2	2	60:00	00:00	00:00	00:00	60:00	20	30	-	-	50	10
Duration (in Hours) / Total Marks					20	290:00	190:00	120:00	00:00	600:00	295	475	-	80	850	100

## Assessment - Minimum Qualifying Percentage

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

**Minimum Pass Percentage – Aggregate at qualification level:** 70 % (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

**Minimum Pass Percentage – NOS/Module-wise:** 70 % (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.	<b>Trainer's Qualification and experience in the relevant sector (in years)</b> <i>(as per NCVET guidelines)</i>	Graduate (Science/Electronics/ Telecom/IT and other relevant domains) with 1 years of industry relevant experience required in Active Networks/5G Network Domain
2.	<b>Master Trainer's Qualification and experience in the relevant sector (in years)</b> <i>(as per NCVET guidelines)</i>	Graduate (Science/Electronics/ Telecom/IT and other relevant domains) with 3 years of industry relevant experience required in Active Networks/5G Network Domain
3.	<b>Tools and Equipment Required for Training</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If "Yes", details to be provided in Annexure)</i>
4.	<b>In Case of Revised Qualification, Details of Any Upskilling Required for Trainer</b>	NA

### Section 4: Assessment Related

1.	<b>Assessor's Qualification and experience in relevant sector (in years)</b> <i>(as per NCVET guidelines)</i>	Graduate (Science/Electronics/ Telecom/IT and other relevant domains) with 1 years of industry relevant experience required in Active Networks/5G Network Domain
2.	<b>Proctor's Qualification and experience in relevant sector (in years)</b> <i>(as per NCVET guidelines)</i>	Graduate in any field
3.	<b>Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)</b> <i>(as per NCVET guidelines)</i>	Graduate (Science/Electronics/ Telecom/IT and other relevant domains) with 1 years of industry relevant experience required in Active Networks/5G Network Domain
4.	<b>Assessment Mode</b> <i>(Specify the assessment mode)</i>	Offline or Blended
5.	<b>Tools and Equipment Required for Assessment</b>	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

### Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	<b>Latest Skill Gap Study (not older than 2 years) (Yes/No):</b> Yes
2.	<b>Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):</b> Yes

3.	<b>Government /Industry initiatives/ requirement (Yes/No):</b> Yes
4.	<b>Number of Industry validation provided:</b> 5
5.	<b>Estimated nos. of persons to be trained and employed:</b> 45000
6.	<b>Evidence of Concurrence/Consultation with Line Ministry/State Departments:</b> If "No", why: <b>Yes</b>



## Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	<b>Annexure:</b> NCrf/NSQF level justification based on NCrf level/NSQF descriptors <i>(Mandatory)</i>	Yes
2.	<b>Annexure:</b> List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Yes
3.	<b>Annexure:</b> Detailed Assessment Criteria <i>(Mandatory)</i>	Yes
4.	<b>Annexure:</b> Assessment Strategy <i>(Mandatory)</i>	Yes
5.	<b>Annexure:</b> Blended Learning <i>(Mandatory, in case selected Mode of delivery is "Blended Learning")</i>	No
6.	<b>Annexure:</b> Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	Yes
7.	<b>Annexure:</b> Acronym and Glossary <i>(Optional)</i>	Yes
8.	<b>Supporting Document:</b> Model Curriculum <i>(Mandatory – Public view)</i>	Yes
9.	<b>Supporting Document:</b> Career Progression <i>(Mandatory - Public view)</i>	Yes
10.	<b>Supporting Document:</b> Occupational Map <i>(Mandatory)</i>	Yes
11.	<b>Supporting Document:</b> Assessment SOP <i>(Mandatory)</i>	Yes
12.	<b>Any other document you wish to submit:</b>	No

## Annexure: 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
<b>Professional Theoretical Knowledge/Process</b>	The key requirements of the job role "Telecom Grameen Udhyami" include a basic understanding of telecommunication systems, network infrastructure, and rural connectivity challenges. The professional theoretical knowledge/processes needed involve telecommunications principles, wireless technologies, rural market analysis, project management, and community engagement strategies to deliver effective and affordable telecom services in rural areas.	The job role of Telecom Grameen Udhyami (Telecom Entrepreneur in rural areas) relates to the National Skills Qualifications Framework (NSQF) level descriptor by requiring professional theoretical knowledge and skills in the telecom industry. This includes understanding the principles of telecommunication, network infrastructure, wireless technologies, customer management, and business processes related to providing telecom services in rural areas.	4
<b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b>	The key requirements for the job role of a Telecom Grameen Udhyami include professional skills such as effective communication, customer service, problem-solving, and adaptability. Technical expertise in telecom systems, network troubleshooting, and equipment installation is crucial. Professional knowledge in telecommunication protocols, mobile technologies, and rural connectivity is essential to succeed in this role.	The specific skills and knowledge may include telecommunications technologies, network infrastructure, customer service, business management, sales and marketing, financial management, and entrepreneurship.	4
<b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b>	Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skills for the job	The job role of Telecom Grameen Udhyami aligns with the NCrF/NSQF level descriptor by requiring Employment	4

	role of Telecom Grameen Udhyaami include effective communication, problem-solving, customer service, adaptability, teamwork, sales and negotiation skills, self-motivation, time management, resilience, and a growth mindset. These skills and mindset are essential for meeting key job requirements and achieving successful outcomes in the field of telecom entrepreneurship.	Readiness and Entrepreneurship Skills & Mind-set/Professional Skills. These skills include effective communication, problem-solving, adaptability, customer service, time management, and entrepreneurial mindset to successfully operate and manage a telecom business in rural areas, promoting digital connectivity and economic development.	
<b>Broad Learning Outcomes/Core Skill</b>	The key requirements and broad learning outcomes for the job role of Telecom Grameen Udhyaami include proficiency in telecommunication systems, strong technical skills, problem-solving abilities, effective communication, customer service orientation, adaptability to changing technology, and knowledge of regulatory frameworks.	The broad learning outcomes/core skills for the job role of Telecom Grameen Udhyaami relate to the NCrf/NSQF level descriptor by encompassing skills such as installation, maintenance, and repair of telecom equipment, understanding of communication networks, troubleshooting, customer service, and adherence to safety protocols. These skills align with the specified NCrf/NSQF level requirements for the role.	4
<b>Responsibility</b>	The key requirements of the job role for a Telecom Grameen Udhyaami include providing telecommunication services in rural areas, ensuring network coverage and connectivity, troubleshooting technical issues, maintaining and repairing equipment, managing customer inquiries and complaints, and adhering to regulatory guidelines and industry standards.	The job role of Telecom Grameen Udhyaami involves responsibilities that align with the NCrf/NSQF level descriptor. These include effectively managing telecom services, ensuring network connectivity, troubleshooting technical issues, providing customer support, and adhering to safety and quality standards in a rural telecom setup.	4

## Annexure: 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	Port Scanner	2 GB RAM, 100 MB storage, OS- Mac, Windows	2
2	Switch Port Mapper	2 GB RAM, 100 MB storage, OS- Mac, Windows	2
3	IP Network Browser	2 GB RAM, 100 MB storage, OS- Mac, Windows	2
4	Network Performance Monitoring Sensors/ Devices		2
5	Routers	With Ethernet Port	2
6	Switches	Port Speed 10 Mbps (Ethernet), 100 Mbps (Fast Ethernet), Ethernet standard 10BASE-T, 100BASE-TX, 1000BASE-T, 10GBASE-T, and beyond	2
7	Intrusion Prevention Systems		2
8	NOC Network Monitoring Software – Pre-installed in Laptop/Desktop	4 GB RAM, 100 MB storage, OS- Mac, Windows, Linux	1
9	Personal Protective Equipment	ISI Marked	1
10	First Aid Kit		1

## Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Projector
2. Computer/laptops
3. Internet connectivity

**Annexure: 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	AXAY ELECTRICAL (India) Private Limited	Sailesh Prajapati	Operation Head	204, Nirman House, Nr. Usmanpura Under Bridge, Usmanpura, Ahmedabad	9067018901	<a href="mailto:sailesh.prajapati@axayelectrical.com">sailesh.prajapati@axayelectrical.com</a>	
2	Mandal Telelink	Bapi Mandal	Proprietor	Jemo Nilkanthapur, Jemo Rajbati, Kandi, Murshidabad - 742140	8617838676	<a href="mailto:mandalbapi620@gmail.com">mandalbapi620@gmail.com</a>	
3	Retrofit Technology Private Limited	Raj Kishore Raj	Director	Pallavi Palace, Beur Jail Road, Beur, Patna-800002	9708097810	<a href="mailto:rajkishore.raj@hotmail.com">rajkishore.raj@hotmail.com</a>	
4	Amantya Technologies Private Limited	Gaurav Saini	AVP- Presale	12th Floor, Unit-1201-1207, Unitech World-Cyber Park, Aarya Samaj Road Sector39, Gurgaon, Gurgaon, Haryana, 122022	9312659540	<a href="mailto:gaurav.saini@amantyatech.com">gaurav.saini@amantyatech.com</a>	
5	Sri Manjunath Technical Services	Ch V Ranga Rao	Proprietor	Plot No: 38, SMTS TOWERS, Adj Kesineni admin office, Sri Ramachandra Nagar, Mahanadu Road, Vijayawada, AP - 520008	8106223344	<a href="mailto:gangarao.chv@smtsgroup.in">gangarao.chv@smtsgroup.in</a>	

## Annexure: Training &amp; 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
23-24	5000	3700	1000	750	0	0
24-25	15000	12000	5000	3500	0	0
25-26	25000	20000	5000	4000	0	0

Data to be provided year-wise for next 3 years

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

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed

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: NA

- 1.
- 2.

## Content availability for previous versions of qualifications: NA

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

Languages in which Content is available: NA

## Annexure: Blended Learning

## Blended Learning Estimated Ratio &amp; Recommended Tools: NA

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	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners		
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice		
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

### Annexure: 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
<b>CON/N0602 Handle hand and power tools relevant to construction electrical works</b>	PC1. perform basic checks on power tools prior to use	2	3	-	-
	PC2. handle hand/power tools for establishing/ terminating electrical connections as per requirement	2	3	-	-
	PC3. use appropriate tools to trace out short circuits/faults and leakages in electrical wiring	2	6	-	-
	PC4. use measuring instruments to measure size and dimension of wires, conduits as per electrical installation or maintenance work requirement	3	6	-	-
	PC5. use hand/ power tools to cut, and bend wire and conduit as per electrical installation or maintenance work requirement	3	6	-	-
	PC6. use appropriate tools to splice wires by stripping insulation from terminal leads and twisting wires together	3	6	-	-
	PC7. use appropriate hand/power tools to thread conduit ends, connect couplings, and fabricate and secure conduit support brackets	3	8	-	-
	PC8. use appropriate electrical measuring devices like ammeter, voltmeter, eggert etc.to examine electrical units for power interruptions/ continuity	3	8	-	-
	PC9. use electrical devices such as starters, circuit breakers, relays as per equipment/ wiring installation rating or current rating	3	8	-	-
	PC10. use diagnostic devices like multi-meter, tong tester, earth tester or similar devices to install, repair power connections	3	8	-	-
	PC11. perform maintenance and upkeep of relevant tools and devices after use	3	8	-	-
	<b>Total Marks</b>	<b>30</b>	<b>70</b>	<b>-</b>	<b>-</b>
<b>TEL/N4122–Wiring and installing equipment at different sites</b>	PC1. interact with the superiors to understand the job requirements	-	1	-	-
	PC2. plan access to sites for installation/testing activities as per the schedule	1	2	-	-
	PC3. collect required tools, equipment and materials for a given work	1	2	-	1
	PC4. match cable type including feeder cable and connectors to installation environment/site requirements as per the plan	1	2	-	1



	PC5. check cable length for continuity	1	2	-	1
	PC6. verify that the cable running length is free of electrical hazards and outdoors/indoors obstructions	2	3	-	-
	PC7. liase with local authorities especially for outdoor cabling	2	3	-	1
	PC8. select suitable location for equipment installation at different site adhering to cabling norms and signal coverage	2	3	-	-
	PC9. ensure structured wiring from PoP to different sites	2	3	-	1
	PC10. install neat wiring and clipping at all points up to the equipment	2	3	-	-
	PC11. use proper cable terminators/connectors	2	4	-	-
	PC12. install proper feeder cable termination between equipment and antenna	2	4	-	1
	PC13. test the cable/joints for transmission loss and strength, re-terminate if loss exceeds prescribed limits	2	4	-	1
	PC14. install equipment following electrical safety principles and manufacturer's instructions	2	4	-	-
	PC15. arrange proper earthing to power-up the system	1	4	-	-
	PC16. remove/dispose installation waste properly	2	4	-	1
	PC17. restore worksite to customer satisfaction	1	4	-	1
	PC18. update records with details of installation and test results	2	4	-	-
	PC19. complete all installation documents and collect necessary payments if any	2	4	-	1
	<b>Total Marks</b>	<b>30</b>	<b>60</b>	<b>-</b>	<b>10</b>
<b>TEL/N6400– Splice Optical Fiber</b>	PC1. ensure availability of optical cable test equipment (Optical Time Domain Reflectometer (OTDR), power meter, etc.)	1	2	-	1
	PC2. confirm availability of optical equipment (spool, joint closure, connectors, splicer and cleaver)	1	3	-	-
	PC3. check availability of joint kits, pigtails, patch cords, FDF (Fiber Distribution Frame), ODB (Optical Distribution Box) connector, protection sleeves and heat shrink	2	3	-	1
	PC4. send faulty equipment to the logistics team for repair or replacement	2	3	-	-
	PC5. ensure availability of RCC (Reinforced Cement Concrete) joint chambers with covers and adequate sand as per specifications	2	3	-	-

PC6. confirm availability of one spare cable drum for emergency replacement of laid cables	1	2	-	-
PC7. ensure calibration status of the equipment to be perform (e.g. splicing machine, OTDR, power meter, cleaver)	2	3	-	-
PC8. identify exact location and fiber/fiber group for which the splicing is to be done as per network route and connectivity plan	1	3	-	-
PC9. inspect cable for sheath damage visually	1	2	-	1
PC10. dismantle/install the fiber joint box/splitter box carefully	1	2	-	-
PC11. ensure maintenance of minimum bend ratios as per manufacturer specifications to prevent cable damage and signal degradation	1	2	-	1
PC12. secure cable in accordance with the industry practices to avoid cable and sheath damage	1	2	-	1
PC13. determine appropriate fibers to be joined based on color coding and sequence	3	1	-	-
PC14. identify an appropriate place for the joint chamber location	1	3	-	-
PC15. clean fiber as per manufacturer specifications	-	1	-	-
PC16. identify the route/fiber and location where splicing/maintenance needs to be done in coordination with Fiber Technician/Operation and Maintenance (O&M) team	1	1	-	-
PC17. arrange outage exclusion time (maintenance window timeline) for the fiber and route in consultation with O&M team	1	1	-	-
PC18. visit the site to identify the exact location and fiber/fiber group for which the splicing is to be done	1	1	-	1
PC19. expose the fiber fault point (by digging for trenched fiber, or opening manholes etc., as required	1	1	-	-
PC20. inspect cable for sheath damage visually	1	3	-	1
PC21. dismantle/install the fiber joint box/splitter box carefully	1	1	-	1
PC22. ensure to maintain minimum bend ratios as per manufacturer specifications to prevent cable damage and signal degradation	1	1	-	-
PC23. secure cable in accordance with the industry practice to avoid cable and sheath damage	-	1	-	-
PC24. determine appropriate fibers to be joined based on color coding and sequence	2	1	-	-
PC25. identify an appropriate place for the joint chamber location				

		1	1	-	-
	PC26. clean the fiber as per manufacturer specifications	-	1	-	-
	PC27. strip cables at areas where splicing has to be performed	1	1	-	-
	PC28. cleave fiber with a precision cleaver	1	1	-	1
	PC29. inspect cleaved fiber ends with magnifier to ensure appropriateness	-	1	-	1
	PC30. insert fiber strands to the fusion machine in accordance with the product/equipment specifications in case of fusion splicing	1	2	-	-
	PC31. align fibers together by a precision-made sleeve and place the prepared fiber in mechanical splicing kit in case of mechanical splicing	1	1	-	-
	PC32. use proper splice protectors like heat shrink splice protectors to protect the splice	1	1	-	-
	<b>Total Marks</b>	<b>35</b>	<b>55</b>	<b>-</b>	<b>10</b>
	<b>TEL/N4201 - In-building FTTH/X Cabling</b>				
	PC1. inspect the site as per building lay-out plan	-	4	-	-
	PC2. identify the cabling path from the outdoor fiber landing point (in the building premises) up to the intended on installation point (this to include both the cable tray as well as conduit runs)	2	5	-	1
	PC3. calculate the horizontal and vertical cable length, accounting for the slack to be maintained	5	-	-	-
	PC4. ascertain the pre-existing load and post installation load compliance of the cable trays	2	1	-	1
	PC5. ascertain and account for existing cable services on the cable trays (power cables, other data/voice cables etc.)	-	4	-	-
	PC6. lay the fiber along the identified tray tracks using appropriate cable pulling method	1	3	-	1
	PC7. secure the fiber along the cable tray ensuring proper slack management (especially for the vertical run)	-	5	-	-
	PC8. demonstrate fiber pulling through conduit using appropriate technique and tools (pulling through strength member and using correct tools like fish tape)	2	5	-	1
	PC9. demonstrate proper coiling and securing of excess fiber (approx. 3 meter) at the termination end	2	4	-	-
	PC10. demonstrate cable installation through false ceiling, using figure 8 method	2	5	-	1
	PC11. demonstrate cable installation through conduits on false ceiling	2	5	-	1

	PC12. demonstrate fiber termination and connectorisation at ONT	3	5	-	1
	PC13. demonstrate fiber termination at TO	-	5	-	1
	PC14. demonstrate powering and configuring of ONT	2	3	-	-
	PC15. test installed ONT using IP network	2	2	-	1
	PC16. undertake VFL (Visual Fault Locator) for the installed fiber run	3	2	-	1
	PC17. test the live fiber using fiber detection meter	2	2	-	-
	<b>Total Marks</b>	<b>30</b>	<b>60</b>	<b>-</b>	<b>10</b>
<b>TEL/N0112 – Configure customer premises equipment and establish broadband connectivity</b>	PC1. connect up laptop/PC, smart/lp TV and other customer device to the CPE and establish connectivity	3	4	-	1
	PC2. access Customer Premise Equipment (CPE) settings using default login credentials	4	4	-	1
	PC3. configure CPE as per the base setting (Ip, gateway, mask etc.)	4	4	-	1
	PC4. verify that all cables and connectors are plugged in properly	3	4	-	1
	PC5. ping the service provider gateway	2	4	-	1
	PC6. analyse test results for connectivity and throughput parameters	4	4	-	1
	PC7. configure end user device to establish LAN /WiFi connectivity with CPE	4	4	-	1
	PC8. ping CPE from end user device and analyse response	3	4	-	1
	PC9. record CPE configuration settings	4	4	-	-
	PC10. record end user device configuration settings	3	4	-	1
	PC11. record pinging procedure and expected result parameters	2	4	-	-
	PC12. perform speed test and record the data throughputs and show customer that they are as per committed plan	2	3	-	1
	PC13. brief customer on basic trouble-shooting steps/self help	2	3	-	-
	<b>Total Marks</b>	<b>40</b>	<b>50</b>	<b>-</b>	<b>10</b>
	PC1. identify cause of fault, No Service or service degradation				

<b>TEL/N0113 – Troubleshoot and rectify faults</b>		2	2	-	1
	PC2. test cabling using signal level meters /OTDR	2	2	-	1
	PC3. repair and replace faulty connectors / damaged cable	2	4	-	-
	PC4. perform re-conectorization/crimping (of cable pairs with connector) or replace cable, if required	4	2	-	1
	PC5. connect CPE to laptop/CPU/portable device	2	2	-	1
	PC6. access CPE through browser/software application and run diagnostic application	2	2	-	1
	PC7. install CPE access software, if required	4	2	-	-
	PC8. re-configure/reset the CPE to correct settings	3	2	-	1
	PC9. troubleshoot/repair problems between customer equipment and the optical node	4	4	-	1
	PC10. troubleshoot problems for signal loss and interference	4	4	-	1
	PC11. take readings at all splitter points and terminated ends to determine the signal loss and continuity	2	4	-	-
	PC12. perform network troubleshooting including ping test, trace routes and speed test	4	6	-	1
	PC13. monitor, repair and record system, drop, and in-house signal leakage	2	4	-	1
	PC14. record steps undertaken for fault localization/isolation	1	6	-	-
	PC15. record repairs/replacements undertaken during fault rectification	1	2	-	-
	PC16. restore any changes made to the worksite during fault repair to the client's satisfaction	1	2	-	-
<b>Total Marks</b>		<b>40</b>	<b>50</b>	<b>-</b>	<b>10</b>
<b>TEL/N2213: Repair and test handsets</b>	PC1. collect the faulty handheld devices from the customer care executives or front-end executives	2	-	-	-
	PC2. assist the supervisor in analysing the requirements, issues and functionality problems reported by the customer/front-end team	2	-	-	-
	PC3. identify the timelines and repair commitments based on the directions received from supervisor and as specified in the Service Level Agreement (SLA)	2	-	-	-
	PC4. plan and prioritize activities related to delivery timeline and issues under supervision	2	-	-	-

PC5. diagnose the fault as listed in the company specific database under supervision and check if it is a hardware or software related issue	2	6	-	1
PC6. assist the supervisor in identifying the root cause of the fault to determine if any part requires replacement	-	-	-	1
PC7. identify the cause of fault by conducting appropriate diagnostic tests	2	-	-	-
PC8. check if the part or component required for repair is available at the store or needs to be ordered from the regional service centre	-	4	-	-
PC9. list all options for rectifying the fault under supervisor's guidance	2	-	-	1
PC10. collect the parts to be replaced/repared from the store/inventory keeper	-	2	-	-
PC11. collect all tools and equipment required for repair/replacement of parts	-	2	-	-
PC12. inspect the repair table and area to check if its clean and dust free	2	-	-	1
PC13. check if all equipment required for repair and testing are calibrated as per the specified environment parameters detailed by the handset manufacturer	2	-	-	1
PC14. check if lead-free soldering tools are available and ready for use	2	-	-	-
PC15. verify that all Electro Static Discharge (ESD) precautions are considered before starting repair	1	-	-	-
PC16. backup all user data using authorized mechanism and medium	-	4	-	-
PC17. dismantle handset and remove the components/parts under supervision and as per organizational guidelines/procedures	-	4	-	-
PC18. assist the supervisor in repairing the handset using authorized tools and equipment	-	4	-	1
PC19. replace components and parts w.r.t manufacturer specifications as per the instructions received by supervisor	-	4	-	1
PC20. verify that all parts of the handset are inserted properly and are contained within the body	2	-	-	-
PC21. assemble the handset properly under supervision of superior using appropriate tools and appropriate procedure	-	4	-	-
PC22. document the package details about case parts/components that are replaced and hold warranty	1	-	-	-
PC23. escalate any emergency situation/unresolved issues to the supervisor				

		1	-	-	-
	PC24. assist supervisors in checking that the repairs conform to the quality targets in terms of bounce and repeat repair percentages, first time fix etc.	-	4	-	1
	PC25. perform necessary software fault rectification such as correction/upgradation, software replacement etc. under supervision	-	4	-	2
	PC26. test the effectiveness of the repair based on the directions received by supervisor and by using appropriate testing equipment	2	2	-	2
	PC27. check that the fault has been rectified without any collateral damage to the handset	1	2	-	1
	PC28. send the repaired handset to the authorized personnel	1	1	-	-
	PC29. return all tools and equipment to the store in clean and working condition	1	1	-	-
	PC30. clean the repair bench/table to ensure no loose screws/parts are lying around	1	-	-	1
	PC31. send the replaced defective part to the authorized personnel	2	1	-	-
	PC32. document the repairs and replacement work for the handset along with time, date, handset specifications, complaint number etc.	1	-	-	-
	PC33. inform all relevant personnel (including supervisors, front-end teams) about the completion of the repair activity	1	1	-	1
	<b>Total Marks</b>	<b>35</b>	<b>50</b>	<b>-</b>	<b>15</b>
<b>TEL/N4141: Provide Techpreneurial Solutions in the Village</b>	PC1. identify the village's needs and demands for telecom and hardware solutions	3	2	-	-
	PC2. create a comprehensive plan outlining the services, target market, finances, and marketing strategies	5	1	-	-
	PC3. choose a suitable location and set up infrastructure		2	-	1
	PC4. obtain necessary permits and licenses	-	-	-	2
	PC5. organize workshops in the village to promote digital literacy	2	-	-	1
	PC6. offer comprehensive telecom services including SIM card sales, mobile recharge, top-up, and post-paid bill payment facility for mobile, landline and DTH services	2	3	-	1
	PC7. provide internet connectivity solutions for homes and businesses in the village including broadband or wireless internet connections	2	4	-	1
	PC8. establish public Wi-Fi hotspots in central locations, such as community centers or schools, to offer affordable internet access to the villagers	2	-	-	1
	PC9. set up local area networks (LANs) in offices and homes, facilitating file sharing and communication	3	4	-	-

	PC10. provide expert hardware and software repair services for mobile phones, computers, laptops, WiFi equipment, and other related devices	2	5	-	-
	PC11. deliver basic IT solutions, including software installation, virus and malware removal, data backup and recovery to ensure smooth functioning of computers and devices for individuals and businesses	3	6	-	-
	PC12. collaborate with government officials and NGOs to set up village information center with computers and internet access to provide valuable information on agriculture, healthcare, government schemes, etc.	-	-	-	2
	PC13. collaborate with healthcare providers to setup telemedicine centres for connecting villagers with medical professionals remotely	-	-	-	2
	PC14. assist in implementing security measures, like CCTV cameras to enhance safety and security in the village	-	6	-	1
	PC15. provide advice and consultation services to individuals and businesses on technology-related matters, helping them make informed decisions	2	-	-	2
	PC16. checks for voltage, current, and earthing, as well as analyzing basic wiring diagrams to facilitate the correct installation of the UPS	4	6	-	1
	PC17. rout the power supply through the UPS and exercise precautions while handling power supplies	2	6	-	-
	PC18. conduct periodic maintenance of the UPS system	3	5	-	-
	<b>Total Marks</b>	<b>35</b>	<b>50</b>	<b>-</b>	<b>15</b>
<b>DGT/VSQ/N0102: Employability Skills (60 Hours)</b>					
	<b>Introduction to Employability Skills</b>	1	1	-	-
	PC1. identify employability skills required for jobs in various industries				
	PC2. identify and explore learning and employability portals	-			
	<b>Constitutional values – Citizenship</b>	1	1		
	PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-			
	PC4. follow environmentally sustainable practices	-			
	Becoming a Professional in the 21st Century	2	4		
	PC5. recognize the significance of 21st Century Skills for employment	-			
	PC6. practice the 21st Century Skills such as Self- Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-			
	<b>Basic English Skills</b>	2	3		
	PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-			



PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English			-	-
PC9. write short messages, notes, letters, e-mails etc. in English				
Career Development & Goal Setting	1	2		
PC10. understand the difference between job and career				
PC11. prepare a career development plan with short- and long-term goals, based on aptitude				
<b>Communication Skills</b>	2	2		
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings				
PC13. work collaboratively with others in a team				
<b>Diversity &amp; Inclusion</b>	1	2		
PC14. communicate and behave appropriately with all genders and PwD				
PC15. escalate any issues related to sexual harassment at workplace according to POSH Act				
<b>Financial and Legal Literacy</b>	2	3		
PC16. select financial institutions, products and services as per requirement				
PC17. carry out offline and online financial transactions, safely and securely				
PC18. identify common components of salary and compute income, expenses, taxes, investments etc				
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation				
<b>Essential Digital Skills</b>	3	4		
PC20. operate digital devices and carry out basic internet operations securely and safely				
PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively				
PC22. use basic features of word processor, spreadsheets, and presentations				
<b>Entrepreneurship</b>	2	3		
PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research				
PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion				
PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity				
<b>Customer Service</b>	1	2		
PC26. identify different types of customers				

	PC27. identify and respond to customer requests and needs in a professional manner.				
	PC28. follow appropriate hygiene and grooming standards				
	Getting ready for apprenticeship & Jobs	2	3		
	PC29. create a professional Curriculum vitae (Résumé)				
	PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively				
	PC31. apply to identified job openings using offline/online methods as per requirement				
	PC32. answer questions politely, with clarity and confidence, during recruitment and selection				
	PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements				
	<b>Total Marks</b>	<b>20</b>	<b>30</b>		
	<b>Grand Total</b>	<b>295</b>	<b>475</b>	<b>-</b>	<b>80</b>

## Annexure: 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 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:

- Check the Assessment location, date and time
- 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.

### 3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & trainer must be ToT Certified

### 4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding

### 5. Method of verification or validation:

- Surprise visit to the assessment location

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

- Hard copies of the documents are stored

### On the Job:

1. Each module (which covers the job profile of Automotive Service Assistant Technician) will be assessed separately.
2. The candidate must score 60% in each module to successfully complete the OJT.
3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
  - Videos of Trainees during OJT
  -
4. Assessment of each Module will ensure that the candidate is able to:
  - Effective engagement with the customers
  - Understand the working of various tools and equipment
  - .....>

## Annexure: 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

## Glossary

Term	Description
<b>National Occupational Standards (NOS)</b>	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.
<b>Qualification</b>	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
<b>Qualification File</b>	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.
<b>Sector</b>	A grouping of professional activities on the basis of their main economic function, product, service or technology.
<b>Long Term Training</b>	Long-term skilling means any vocational training program undertaken for a year and above. <a href="https://ncvet.gov.in/sites/default/files/NCVET.pdf">https://ncvet.gov.in/sites/default/files/NCVET.pdf</a>