

Qualification Code
QG-03-TL-00464-2023-V1.1-TSSC

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Telecom Sector Skill Council

Estel House, 3rd Floor, Plot No: - 126, Sector 44, Gurugram, Haryana 122003

Name and contact details of individual dealing with the submission

Name: Mr. Satyaveer Gulati

Position in the organisation: Chief Technical Officer

Address if different from above: Same as above

Tel number(s): 0124-4148029

E-mail address: satyaveer.gulati@tsscindia.com

List of documents submitted in support of the Qualifications File

1. Model Curriculum

Model Curriculum to be added which will include the following:

- **Indicative list of tools/equipment to conduct the training**
- **Trainers' qualification**
- **Lesson Plan**
- **Distribution of training duration into theory/practical/OJT component**

NSQF QUALIFICATION FILE

Approved in 20th NSQC Meeting – NCVET-Dated 30 June 2022

SUMMARY

1	Qualification Title: Jr. Technician - Last Mile Active Network
2	Qualification Code, if any: TEL/Q6101
3	NCO code and occupation: NCO-2015/3114.6101 Network (Active Components) Installation
4	Nature and purpose of the qualification (Please specify whether a qualification is a short term or long term): Last Mile Active Network Operator Responsible for installing network devices such as network switch, router, and LAN and WAN devices. This QP is for a short-term program, and it is designed based on industry demand. Easy to learn and deploy.
5	Body/bodies which will award the qualification: Telecom Sector Skill Council
6	Body which will accredit providers to offer courses leading to the qualification: Telecom Sector Skill Council
7	Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy): Yes. SMART norms for accreditation and SSC norms for affiliation are available on the SMART portal.
8	Occupation(s) to which the qualification gives access: Network (Active Components) Installation
9	Job description of the occupation: A Last Mile Active Network Operator is responsible for installing network devices such as network switch, router, and LAN and WAN devices. The individual is also responsible for carrying out preventive and corrective maintenance of the network devices.
10	Licensing requirements: N/A
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided): N/A
12	Level of the qualification in the NSQF: Level 3
13	Anticipated volume of training/learning required to complete the qualification: 420 Hours
14	Indicative list of training tools required to deliver this qualification: LAN Port, Ethernet Port, Ethernet Cable, Router, Fibre cable, Router, Optical Fibre Cable, Copper Cable, Coaxial Cable, Network Switch, LC Multimode Connectors, Connector Crimper, Radio Transmitters, SC Multimode Connectors, Wire Stripper/ Wire Cutter, Cable Cutter, Diagonal Cutting Plier, Fine Tip Straight Tweezer, Screwdriver, Hand & Power Tools like - Fibre Optic Stripper, Optical Power Meter, Fibre Optic Cleaver, Fibre Optic Shears, Fibre Optic

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	Visual Fault Locator (VFL), Relevant stationery, First Aid Kit and Equipment used in Medical Emergencies, Personal Protective Equipment, Hygiene Equipment and Materials like Sanitizer, Soap, Mask, etc.				
15	Entry requirements and/or recommendations and minimum age: Grade 10 pass OR Grade 8 pass with two years of (NTC/ NAC) after 8th OR Grade 8 pass and pursuing continuous schooling in regular school with No Experience required OR Previous relevant Qualification of NSQF Level 2 with 3-year relevant experience, 15 years				
16	Progression from the qualification (Please show Professional and academic progression): Level-4 (Vertical) Technician 5G – Active Network Installation				
17	Arrangements for the Recognition of Prior learning (RPL): RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack by Telecom Sector Skill Council.				
18	International comparability where known (research evidence to be provided): No				
19	Date of a planned review of the qualification: 30 June 2025				
20	The formal structure of the qualification				
	Mandatory components				
(i)	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)			Level
		Theory	Practical	OJT	
1	Introduction to the role of a Jr. Technician - Last Mile Active Network	20	10	0	3
2	Install the Local Area Network (LAN) and Wide Area Network (WAN) devices	20	30	40	3
3	Set up and Configuration of Network Switch and Router	20	30	40	3
4	Carry out Maintenance of Network Devices	40	40	40	3

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5	Organise Work and Resources as per Health and Safety Standards	10	20	00	3
6	Interact Effectively with Team Members and Customers	10	20	00	3
7	DGT/VSQ/N010 Employability Skills (30 Hours)	30	00	00	2
	Sub Total (A)	150	150	120	
	Total			420	

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SECTION 1
ASSESSMENT

21	<p>Body/Bodies which will carry out an assessment: Telecom Sector Skill Council.</p> <p>Proposed Body/Bodies which will carry out an assessment: The assessment will be carried out via our affiliated assessment body.</p>
22	<p>How will RPL assessment be managed and who will carry it out? The RPL assessment will be managed by TSSC via its affiliate assessment partners.</p>
23	<p>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</p> <p>The emphasis is on practical demonstration of skills and knowledge based on the performance criteria. The assessment papers are developed by Subject Matter Experts (SME) available with the Assessment Agency as per the performance and assessment criteria mentioned in the Qualification Pack. The assessment papers are also checked for the various outcome-based parameters such as quality, time taken, precision, tools & equipment requirement etc. The assessment results are backed by evidences collected by assessors.</p> <ol style="list-style-type: none"> 1. The assessor needs to collect a copy of the attendance for the training done under the scheme. The attendance sheets are signed and stamped by the In-charge / Head of the Training Centre. 2. The assessor needs to verify the authenticity of the candidates by checking the photo ID card issued by the institute as well as any one Photo ID card issued by the Central/Government. The same needs to be mentioned in the attendance sheet. In case of suspicion, the assessor should authenticate, and cross verify trainee's credentials in the enrolment form. 3. The assessor needs to punch the trainee's roll number on all the test pieces. 4. The assessor can take a photograph of all the students along with the assessor standing in the middle and with the center name/banner at the back as evidence. 5. The assessor also needs to carry a photo ID card. <p>The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with its assessment agency by which they commit themselves to comply with the rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments.</p>

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Please attach most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – i.e., Learning Outcomes to be assessed, assessment criteria and the means of assessment.

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24. Assessment evidences

Title of Component:

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Jr. Technician - Last Mile Active Network

Qualification Pack TEL/Q6101

Sector Skill Council Telecom Sector Skill Council

Guidelines for Assessment

1. Criteria for assessment for each Qualifications Pack will be approved by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions approved by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/ option NOS/ Set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
6. To pass the Qualifications Pack, every trainee should score a minimum of 50% of aggregate marks.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TEL/N6109: Install the Local Area Network (LAN) and Wide Area Network (WAN) devices				
Prepare for the installation	11	22	-	4
PC1. coordinate with the supervisor or relevant personnel to arrange the LAN and WAN devices and accessories for installation	3	6	-	1
PC2. inspect the LAN and WAN network devices and accessories to ensure they have no damages and malfunctioning	3	6	-	1
PC3. plan the network connections between the network devices	3	5	-	1

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PC4. install and terminate ethernet and fibre cables and carry out testing, as per requirement	2	5	-	1
Install the LAN and WAN network devices	19	38	-	6
PC5. design the network through Ethernet cables between network devices or by making wireless connections, as applicable	3	4	-	1
PC6. carry out the installation of LAN and WAN network devices and accessories as per the manufacturers' instructions	3	6	-	1
PC7. select the networking device, such as switch, router or hub, based on the requirements of the network, ensuring the networking device has enough ports to connect all devices within the network	4	8	-	1
PC8. configure the LAN and WAN ports to provide a network connection to all the network devices	2	7	-	1
PC9. carry out testing of LAN and WAN network devices to identify performance issues	3	6	-	1
PC10. carry out appropriate troubleshooting for the network devices and co-ordinate with the manufacturer for the resolution of manufacturing faults	4	7	-	1
NOS Total	30	60	-	10
TEL/N6110: Set up and Configuration of Network Switch and Router				
Set up and configure the network switch	10	26	-	5
PC1. check network switch and its connected cables for any damages and coordinate with the relevant personnel for the replacement of faulty hardware, if any	1	3	-	1
PC2. test the network switch by turning it on and verify that all the indicator lights are in working order	1	3	-	-
PC3. connect the network switch with a computer/laptop and install the relevant software tool for operating and controlling the network switch	1	4	-	-
PC4. check the output of the relevant commands such as Virtual LAN (VLAN) brief, VLAN Trunking Protocol (VTP) status, etc.	1	3	-	1

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PC5. set up the host name for the switch following the organization naming protocol	1	2	-	-
PC6. assign an IP address as per IP Schema on the management VLAN, ensuring the switch has a set hostname and domain name	1	2	-	1
PC7. check the Virtual Trunking Protocol (VTP) revision number and update it following the manufacturer instructions as required, before adding the switch to the network	1	2	-	-
PC8. configure the access and trunk ports on the network switch	1	2	-	1
PC9. generate RSA keys to be used during the Secure Shell (SSH) process, using the appropriate crypto commands	1	2	-	-
PC10. check the SSH access is enabled and allows network access from a remote computer	1	3	-	1
Set up and configure the router	15	39	-	5
PC11. ensure the availability of an active internet connection for setting up the router	1	3	-	1
PC12. set up the router antennas and extend them before beginning the setup process	1	2	-	-
PC13. select an appropriate spot for placing the router for easy access and maintenance	1	3	-	1
PC14. connect the router to the ISP gateway's ethernet port using CAT5e or CAT6 cable, as required	1	4	-	-
PC15. install a mesh network with a router to place multiple Wi-Fi transmitters in a single network, as required	1	4	-	1
PC16. ensure Ethernet cable is plugged in appropriately into the router's Wide Area Network (WAN) port	1	4	-	-
PC17. check the router's LED lights to ensure a successful internet connection or test the connection, as required	2	3	-	1
PC18. configure the wireless router gateway and connect it to the router, following the manufacturer's instructions	1	4	-	-

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PC19. use the appropriate mobile applications or web dashboard to set up the username and password as per the manufacturer instructions	2	4	-	-
PC20. check for router firmware or security updates and install the available updates to ensure maximum network security	2	3	-	1
PC21. use the relevant auto-configuration tools to manage IP addresses and automatic assigning of IP addresses to devices on the network with the Dynamic Host Configuration Protocol (DHCP)	2	5	-	-
NOS Total	25	65	-	10
TEL/N6111: Carry out Maintenance of Network Devices				
Carry out preventive maintenance	14	38	-	6
PC1. develop a scheduled maintenance plan to prevent network downtime and equipment failures through regular maintenance	1	3	-	-
PC2. use the predictive network analytics platform for the identification and resolution of LAN/WAN issues	1	4	-	1
PC3. monitor the LAN and WAN network devices and infrastructure, such as switches, routers, wireless LAN controllers, wireless access points, hubs, terminating devices for optimal performance	1	4	-	-
PC4. identify performance issues with LAN and WAN network devices and carry out appropriate troubleshooting	1	3	-	1
PC5. maintain the cleanliness of network devices, servers, and computers, protecting them from dust	1	2	-	-
PC6. check the condition of network devices, servers, and computers to ensure they are not damaged and are functioning appropriately	2	3	-	-
PC7. detect unusual noises and malfunctioning network equipment, and carry out appropriate troubleshooting	1	2	-	1
PC8. ensure appropriate cooling arrangement including regular changing of air filters to prevent overheating of network devices and server	1	3	-	-

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PC9. ensure cables are labelled correctly and replace the worn or unreadable labels	1	2	-	1
PC10. check that cable supports are properly installed, and no attachment points are loose	1	3	-	-
PC11. maintain the cables in good condition for optimal network performance, and replace the worn-out or damaged cables	1	3	-	1
PC12. analyse and diagnose network problems for a variety of users	1	4	-	-
PC13. assist in implementing approved network changes and upgrades to ensure optimal network performance	1	2	-	1
Carry out corrective maintenance	11	27	-	4
PC14. collect all the relevant information about the network issue being experienced	1	2	-	1
PC15. analyse the error message/ problem and determine the cause of the issue, whether it is a hardware, software, or connectivity issue	2	3	-	-
PC16. identify whether recent commissioning/ decommissioning of network devices or changes in software is the cause of the issue	1	2	-	1
PC17. check that all the network cables are connected securely at the correct ports, and make the appropriate correction, as required	1	3	-	-
PC18. perform network device reboot and repair or re-enable the network connection	1	4	-	1
PC19. ping the default gateway, if required	1	1	-	-
PC20. identify appropriate corrective solutions to be applied to network hardware or software to prevent any future issues	1	4	-	1
PC21. assist other groups in troubleshooting problems that require packet analysis or equipment performance review	1	2	-	-
PC22. co-ordinate with the network administrator or device manufacturer for any complex or manufacturing faults	1	3	-	-

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PC23. create, publish, and maintain up to date and accurate network maintenance documentation	1	3	-	-
NOS Total	25	65	-	10
TEL/N9101: Organise Work and Resources as per Health and Safety Standards				
Perform work as per quality standards	4	9	-	2
PC1. keep workspace clean and tidy		1	-	-
PC2. perform individual role and responsibilities as per the job role while taking accountability for the work	1	1	-	1
PC3. record/document tasks completed as per the requirements within specific timelines	-	1	-	1
PC4. implement schedules to ensure timely completion of tasks	-	2	-	-
PC5. identify the cause of a problem related to own work and validate it	2	2	-	-
PC6. analyse problems accurately and communicate different possible solutions to the problem	1	2	-	-
Maintain safe, healthy and secure working environment	16	27	-	4
PC7. comply with organisation's current health, safety, security policies and procedures	1	1	-	-
PC8. check for water spills in and around the work space and escalate these to the appropriate authority	1	2	-	1
PC9. report any identified breaches in health, safety, and security policies and procedures to the designated person	1	2	-	1
PC10. use safety materials such as goggles, gloves, ear plugs, caps, ESD pins, covers, shoes, etc	1	2	-	1
PC11. avoid damage of components due to negligence in ESD procedures or any other loss due to safety negligence	2	3	-	1
PC12. identify hazards such as illness, accidents, fires or any other natural calamity safely, as per organisation's emergency procedures, within the limits of individual's authority	2	1	-	-
PC13. participate regularly in fire drills or other safety related workshops organised by the company	1	3	-	-

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PC14. report any hazard outside the individual's authority to the relevant person in line with organisational procedures and warn others who may be affected	1	3	-	-
PC15. maintain appropriate posture while sitting/standing for long hours	1	1	-	-
PC16. handle heavy and hazardous materials with care, while maintaining appropriate posture	1	1	-	-
PC17. sanitize workstation and equipment regularly	1	2	-	-
PC18. clean hands with soap, alcohol-based sanitizer regularly	-	1	-	-
PC19. avoid contact with anyone suffering from communicable diseases and take necessary precautions	-	1	-	-
PC20. take safety precautions while travelling e.g. maintain 1m distance from others, sanitize hands regularly, wear masks, etc.	1	2	-	-
PC21. report hygiene and sanitation issues to appropriate authority	1	1	-	-
PC22. follow recommended personal hygiene and sanitation practices, for example, washing/sanitizing hands, covering face with a bent elbow while coughing/sneezing, using PPE, etc	1	1	-	-
Conserve material/energy/electricity	7	16	-	3
PC23. optimize usage of material including water in various tasks/activities/processes	1	2	-	-
PC24. use resources such as water, electricity and others responsibly	1	2	-	1
PC25. carry out routine cleaning of tools, machine and equipment	1	2	-	-
PC26. optimize use of electricity/energy in various tasks/activities/processes	1	3	-	1
PC27. perform periodic checks of the functioning of the equipment/machine and rectify wherever required	1	3	-	1
PC28. report malfunctioning and lapses in maintenance of equipment	1	2	-	-
PC29. use electrical equipment and appliances properly	1	2	-	-
Use effective waste management/recycling practices	3	8	-	1

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PC30. identify recyclable, non-recyclable and hazardous waste	1	2	-	1
PC31. deposit recyclable and reusable material at identified location	1	3	-	-
PC32. dispose non-recyclable and hazardous waste as per recommended processes	1	3	-	-
NOS Total	30	60	-	10
TEL/N9102: Interact Effectively with Team Members and Customers				
Interact effectively with superiors	7	15	-	2
PC1. receive work requirements from superiors and customers and interpret them correctly	1	2	-	-
PC2. inform the supervisor and/or concerned person about any unforeseen disruptions or delays	2	4	-	1
PC3. participate in decision making by providing facts and figures, giving/accepting constructive suggestions	2	5	-	1
PC4. rectify errors as per feedback and ensure the errors are not repeated	2	4	-	
Interact effectively with colleagues and customers	7	26	-	4
PC5. comply with organisation's policies and procedures for working with team members	1	2	-	-
PC6. communicate professionally using appropriate mode of communication such as face-to-face, telephonic and written	2	4	-	1
PC7. respond to queries and seek/provide clarifications if required	2	4	-	1
PC8. co-ordinate with team to integrate work as per requirements		3	-	-
PC9. resolve conflicts within the team/with customers to achieve smooth workflow	1	5	-	1
PC10. recognize emotions accurately in self and others to build good relationships	1	4	-	-
PC11. prioritize team and organization goals above personal goals		4	-	1
Respect differences of gender and ability	11	24	-	4
PC12. maintain a conducive environment for all the genders at the workplace	2	5	-	1
PC13. encourage appropriate behavior and conduct with people across gender	2	5	-	1

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PC14. assist team members with disability in overcoming any challenges faced in work	3	4	-	1
PC15. practice appropriate verbal and non-verbal communication while interacting with People with Disability (PwD)	2	4	-	1
PC16. ensure equal participation of the people across genders in discussions	2	6	-	-
NOS Total	25	65	-	10

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
DGT/VSQ/N0101: Employability Skills (30 Hours)				
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
<i>Constitutional values – Citizenship</i>	1	1	-	-
PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	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.	-	-	-	-
<i>Basic English Skills</i>	2	3	-	-
PC4. speak with others using some basic English phrases or sentences	-	-	-	-
<i>Communication Skills</i>	1	1	-	-
PC5. follow good manners while communicating with others	-	-	-	-
PC6. work with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	1	-	-

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PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC8. report any issues related to sexual harassment	-	-	-	-
<i>Financial and Legal Literacy</i>	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	-	-	-	-
<i>Essential Digital Skills</i>	4	6	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	1	3	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
NOS Total	20	30	-	-

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Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
Provided in the above section	
Means of assessment 1 <ol style="list-style-type: none">1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below.)4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria.	
Means of assessment 2 <p>Add boxes as required.</p>	
Pass/Fail <ol style="list-style-type: none">1. To pass the Qualification File, every trainee should score a minimum of 50% in every Qualification.2. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification File.	

NSQF QUALIFICATION FILE

SECTION 2

25. EVIDENCE OF LEVEL

Title/Name of qualification/component: Jr. Technician - Last Mile Active Network Level: 3			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<p>Installation and Maintenance of Network Devices</p> <ul style="list-style-type: none"> • Install the LAN and WAN network devices. • Selecting the network device. • Configure and Test the LAN and WAN network devices. • Set-up the network switch and router 	<p>The individual is responsible for installing network devices such as network switches, routers, and LAN and WAN devices.</p> <p>The individual must have attention to detail along with strong analytical and problem-solving skills.</p> <p>Hence, this is level 3</p>	3
Professional knowledge	<p>Factual and theoretical knowledge in broad contexts within a field of work or study.</p> <ul style="list-style-type: none"> • Technical specifications of products and processes • Knowledge about the technology required to install the network devices. • Maintenance standards/guidelines 	<p>The individual should have a good understanding of technical specifications and functionalities of products and processes, knowledge of functioning techniques, knowledge about managing concerns/issues, and standards/guidelines of Last Mile Active Network Installation.</p> <p>Hence, this is level 3.</p>	3

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Title/Name of qualification/component: Jr. Technician - Last Mile Active Network Level: 3			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Professional skill	<p>A range of cognitive and practical skills is required to generate solutions to specific problems in a field of work or study.</p> <ul style="list-style-type: none"> • Knowledge of LAN and WAN network devices and accessories • Use of Ethernet and fibre cables. • Setting up the hostname for the network switch. • Appropriately using the mobile app or web dashboard 	<p>The individual is required to have a range of technical skills, to be competitive in this job role, such as strong analytical and problem-solving skills, verbal and written communication skills. comply with standards related to Last Mile Active Network Installation.</p> <p>Hence, this is level 3</p>	3
Core skill	<p>Core Domain Skill:</p> <ul style="list-style-type: none"> • Able to install and maintain the networking systems • Understand the process of testing the network switch, checking the output of relevant commands, generating the RSA keys 	<p>The individual is responsible for installing network devices such as network switch, router, and LAN and WAN devices. The individual is also responsible for carrying out preventive and corrective maintenance of the network devices.</p> <p>Hence, this is level 3.</p>	3

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Title/Name of qualification/component: Jr. Technician - Last Mile Active Network Level: 3			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Responsibility	<p>Responsibility for completing the work assigned and reporting the same as per standards.</p> <ul style="list-style-type: none"> • Understand the job role and follow the organisational policy • Record and report about the work status • Follow safety regulations at the workplace • Work along with colleagues and supervisors 	<p>The individual is responsible for installing the Local Area Network (LAN) and Wide Area Network (WAN) network devices. Also, responsible for setting up and configuring the network switch and router for connecting multiple devices securely on a network.</p> <p>Hence Level 3.</p>	3

NSQF QUALIFICATION FILE

SECTION 3 **EVIDENCE OF NEED**

26	<p>What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?</p> <ol style="list-style-type: none">1. Feedback from industry was collected with respect to roles for which qualification pack development was to be prioritized.2. Skills Gap analysis reports for industry demand Training duration w.r.t current and potential capacity envisaged for potential supply
27	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences</p> <p>We have received the approval form the Line Ministry department.</p>
28	<p>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification</p> <p>NSDC list of Approved and Under-Development QPs was checked prior to commencement the work.</p>
29	<p>What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here</p> <ul style="list-style-type: none">• Agencies have been appointed by the SSC to interact with training providers to gather feedback in implementation• Monitoring of results of assessments• Employer feedback will be sought post-placement• A formal review is scheduled by 2025

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

SECTION 4
EVIDENCE OF PROGRESSION

30 What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

1. Endorsed and accepted by the Industry players
2. Formal recognition from the Industry players
3. Horizontal and vertical mobility options are available

Annexure 1: Career Map of Last Mile Active Network Operator

