

NSQF QUALIFICATION FILE

Approved in 17th NSQC Meeting – NCVET-Dated 31 March 2022

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

NCVET Code
2022/TEL/TSSC/05793

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. Krishna Nand Jha

Position in the organization: Assistant General Manager

Address if different from above: Same as above

Tel number(s): 0124-4148029

E-mail address: manager-projects@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

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SUMMARY

1	Qualification Title: 5G Technician – Active Network Installation
2	Qualification Code, if any: TEL/Q6213
3	NCO code and occupation: NCO-2015/NA and Network (Active Components) Installation
4	Nature and purpose of the qualification (Please specify whether a qualification is a short term or long term): 5G Technician – Active Network Installation Responsible for carrying out rack level installation to install 5G network equipment and then carrying out the 5G active network installation.
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 5G Technician - Active Network Installation is responsible for carrying out rack-level installation to install 5G network equipment and then carrying out the 5G active network installation. The individual also identifies and rectifies faults or malfunctions during the installation process.
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 4
13	Anticipated volume of training/learning required to complete the qualification: 510 Hours
14	Indicative list of training tools required to deliver this qualification: MIMO antenna technology, eCPRI/ROE, doors, roof panels, side panels, locks, hinged wall brackets, casters, levelers, TCP, DNS, SSH, SSL, HTTP, 3GPP, PPE, Two-Way Radio, Relevant stationery, First Aid Kit and Equipment used in Medical Emergencies, Personal Protective Equipment, Hygiene Equipment and Materials like Sanitizer, Soap, Mask, etc.

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15	<p>Entry requirements and/or recommendations and minimum age:</p> <p>Class 12th OR Class 10th + ITI (2 years in Electronics/Telecom/IT and other relevant fields) OR Class 10th with 2 years of relevant experience OR Class 8th + ITI (2 years in Electronics/Telecom/IT and other relevant fields) with 2 years of relevant experience OR Diploma after 10th (3 years in Electronics/Telecom/IT and other relevant fields) OR Certified in NSQF-L3 Last Mile - Active Network Component Installer with 2 Years of relevant experience</p> <p>17 years</p>							
16	<p>Progression from the qualification (Please show Professional and academic progression): Project Engineer – 5G Networks</p>							
17	<p>Arrangements for the Recognition of Prior learning (RPL):</p> <p>RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack by Telecom Sector Skill Council.</p>							
18	<p>International comparability where known (research evidence to be provided): No</p>							
19	<p>Date of a planned review of the qualification: 31 Mar 2022</p>							
20	<p>The formal structure of the qualification</p> <p>Mandatory components</p>							
(i)	<p>Title of component and identification code/NOSs/Learning outcomes</p>	<p>Estimated size (learning hours)</p> <table border="1"> <thead> <tr> <th>Theory</th> <th>Practical</th> <th>OJT</th> </tr> </thead> </table>			Theory	Practical	OJT	<p>Level</p>
Theory	Practical	OJT						
1	<p>Introduction to the Role of a 5G Technician – Active Network Installation</p>	08	04	12	4			
2	<p>Carry out rack-level installation</p>	56	64	36	4			
3	<p>Carry out 5G active network installation</p>	68	74	52	4			

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4	Follow the occupational health and safety instructions during tower climbing	16	20	20	4
5	Organize Work and Resources as per Health and Safety Standards	16	24	00	4
6	Interact Effectively with Team Members and Customers	16	24	00	4
	Sub Total (A)	180	210	120	

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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 carried out via our affiliated affiliate assessment body.</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 evidence 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 evidence

Title of Component: Technician 5G – Active Network Installation

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Technician 5G – Active Network Installation

Qualification Pack TEL/Q6213

Sector Skill Council Telecom Sector Skill Council

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Element/ 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 Element/ PC.
2. The assessment for the theory part will be based on knowledge bank of questions created 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 these criteria.
6. To pass the Qualification Pack assessment, every trainee should score the Recommended Pass % aggregate for the QP.
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/N6104: Carry out rack-level installation				
<i>Prepare for the installation</i>	11	20		7
PC1. check the availability of space in the room selected for rack and equipment installation to ensure it can support the installation of racks currently and additional racks in the future	2	3		1
PC2. check the facility's doors have appropriate height, and the floor is adequately strong to support the movement and installation of racks and equipment	1	3	-	1
PC3. check the availability of the appropriate type of racks for the installation of 5G network equipment, ensuring the racks allow easy cable and device management	2	2	-	1

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PC4. ensure the room's circuits can provide the correct voltages and sufficient amperage for all the 5G network equipment	1	2	-	1
PC5. check that there are no sources of heat in and around the room selected for the installation of racks and equipment	1	2	-	1
PC6. ensure there is adequate active or passive ventilation, such as ducts, dropped ceilings or Computer Room Air Conditioners (CRACs) for the dissipation of heat generated by the equipment	1	4	-	1
PC7. prepare a plan for the placement of the racks in relation to the room and important resources, such as power circuits and cooling equipment	3	4	-	1
<i>Carry out the installation</i>	19	30	-	13
PC8. arrange racks in a hot-aisle/cold-aisle layout to reduce energy use	1	2	-	1
PC9. plan the installation of equipment on racks to maximise space utilisation inside the racks, and permit easy service and future equipment installations	3	3	-	1
PC10. check gNodeB received from the vendor to ensure it is not damaged or faulty	1	3	-	1
PC11. co-ordinate with the relevant personnel or manufacturer for the repair or replacement of damaged/ faulty gNodeB	1	2	-	1
PC12. set up gNodeB and other 5G network equipment on racks safely and secure them using nuts and screws, adhering to the load rating of racks	3	4	-	2
PC13. ensure to place the heavy equipment at the bottom of racks to prevent them from becoming top-heavy and prone to tipping over	1	2	-	1
PC14. carry out the installation of blade servers and other high-density and high wattage loads in multiple racks to prevent problematic hot spots	3	3	-	1
PC15. follow the manufacturer's instructions provided in the installation manual for safe and successful installation of equipment	1	2	-	1
PC16. identify faults/malfunctions in the equipment and carry out troubleshooting as per the manufacturer's instructions	2	3	-	1
PC17. co-ordinate with the manufacturer to resolve any manufacturing faults	1	2	-	1
PC18. use pre-configured equipment provided by the manufacturer or follow the manufacturer's instructions to configure the operating system with the Virtual Machine (VM) ware	2	4	-	2

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NOS Total	30	50	-	20
TEL/N6105: Carry out 5G active network installation				
<i>Carry out power, earthing and RF cabling</i>	10	28	-	7
PC1. ensure the availability of required installation materials as per the installation document, such as end connectors, thimbles etc.	1	3	-	1
PC2. determine the power requirements of the gNodeB and other equipment	1	2	-	-
PC3. check the availability of appropriate power, earthing, and Radio Frequency (RF) cables	1	3	-	1
PC4. check the cables to ensure they are not faulty or damaged and co-ordinate with the relevant personnel to get them replaced	1	4	-	1
PC5. install power cables between the equipment and power source to ensure power supply to the equipment	1	4	-	-
PC6. install earthing cables to the earth source, ensuring the earth value is within the specified limits	1	4	-	1
PC7. carry out the installation of RF cables between gNodeB/ other equipment and the antennas on the cell tower	1	2	-	1
PC8. ensure routing and termination of cables between omnidirectional and directional or sector antennas in such a manner to allow their easy maintenance	1	3	-	1
PC9. check for transmission between the equipment and the antennas and carry out appropriate troubleshooting, as required	2	4	-	1
<i>Install and commission backhaul connectivity</i>	20	32	-	3
PC10. co-ordinate with the relevant personnel to establish high throughput ethernet/ fiber based backhaul connectivity on the Ethernet interface	2	2	-	-
PC11. use fibre optic for backhaul connectivity for the 5G network	2	2	-	-
PC12. terminate the backhaul connectivity to ensure gNodeB is configurable and connected to the central office	2	4	-	1
PC13. create Centralised Unit–Distributed Unit (CU-DU) split architecture	3	5	-	1
PC14. configure gNodeB to the Centralised Unit (CU)	3	5	-	1
PC15. follow the recommended measures to make the gNodeB visible in the central unit so that commissioning commands can be given from the central unit	1	3	-	-

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PC16. install the appropriate environmental alarm systems and configure them to the central unit so that the site can be monitored in the network operation centre	4	5	-	-
PC17. install the appropriate Operating System (OS) and the Virtual Machine (VM) ware	3	6	-	-
NOS Total	30	60	-	10
TEL/N6246: Follow the occupational health and safety instructions during tower climbing				
<i>Perform the pre-climb tower inspection</i>	7	12	-	3
PC1. perform a visual observation of the tower using binoculars to check for loose or missing hardware and ensure such issues are fixed before climbing the tower	1	2	-	1
PC2. identify any climbing obstructions and hazards, such as bird roosts and insect nests and take appropriate measures to deal with them	1	2	-	-
PC3. inspect turnbuckles for correct installation and check the tension of the guy wires on guyed towers to ensure they are within their recommended tension range	1	2	-	1
PC4. check guy preforms on guyed towers and thimbles for signs of damage	1	2	-	-
PC5. check the verticality of the tower to identify the eccentricity/leaning of the tower due to weakness in the tower members by wind load or excessive line loading	2	2	-	1
PC6. ensure all the identified issues with the tower are addressed through coordination with the relevant authority, before undertaking tower climbing	1	2	-	-
<i>Check the safety equipment and work site conditions</i>	11	20	-	7
PC7. check the availability of appropriate tower ladders, hoisting and rigging equipment, and relevant tools and machinery for climbing towers, ensuring they are appropriately maintained and safe for use	1	2	-	1
PC8. check the availability of appropriate Personal Protective Equipment (PPE) and inspect it to ensure it is well-maintained and safe for use, ensuring not to undertake any rigging work without PPE	1	2	-	-
PC9. check the availability of a fully equipped first aid kit at the work site to deal with minor medical emergencies	1	2	-	1

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PC10. check the strength of radio waves at the tower work site using a Radio Frequency (RF) detector to ensure adherence to applicable RF safety regulations	2	2	-	-
PC11. check there are no serious electrical hazards at the tower work site, such as overhead electricity wires	1	2	-	1
PC12. co-ordinate with the relevant personnel to conduct comprehensive safety planning, including a Job Hazard Analysis (JHA) and an Emergency Action Plan (EAP)	1	2	-	-
PC13. identify unsafe conditions at the work site and report them promptly to the appropriate authority	1	1	-	1
PC14. check the weather conditions through reliable sources to ensure no storm, lightning or other adverse weather conditions are expected that could impact working at heights on towers	1	2	-	1
PC15. measure the wind velocity using an anemometer to ensure tower climbing is carried out when the wind velocity is under the recommended limits	1	2	-	1
PC16. ensure any equipment, machinery, vehicles, or materials which are potential danger near tower sites and live wires are maintained at a safe distance	1	2	-	1
<i>Carry out tower operations following safety instructions</i>	12	23	-	5
PC17. follow the applicable health and safety protocol at the work site, including registering	1	2	-	1
PC18. use a full-body harness tied off at appropriate spots on the tower to maintain complete tie-off while on the tower	1	2	-	-
PC19. use a safety cable climb or two or more lanyards when moving on towers	1	2	-	-
PC20. use the appropriate PPE while climbing up and down and working on towers, following the manufacturer's instructions to ensure its effectiveness	1	2	-	-
PC21. follow the recommended tower climbing practices while climbing and working on telecom towers to minimise any injuries and untoward incidents during tower climbing	1	2	-	1
PC22. use two-way radio while working on towers to maintain continuous communication with the ground crew	1	2	-	-

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PC23. co-ordinate with the relevant authority to report impaired physical health and stop working at heights under the influence of drowsiness-inducing medication	1	2	-	1
PC24. carry out work away from electricity wires or co-ordinate with the relevant authority to have electricity turned off while working near electricity wires, as appropriate	1	2	-	1
PC25. ensure to place appropriate warning signs to warn co-workers while working near live electricity wires	1	2	-	1
PC26. ensure compliance with the applicable health and safety standards and regulations	1	2	-	-
PC27. administer first aid for different types of medical emergencies	1	2	-	-
PC28. assist the relevant personnel in preparing incident reports by providing information regarding tower climbing incidents	1	1	-	-
NOS Total	30	55		15
TEL/N9101: Organize Work and Resources as per Health and Safety Standards				
<i>Perform work as per quality standards</i>	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	-	-
<i>Maintain safe, healthy and secure working environment</i>	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

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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	-	-
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. sanitise workstation and equipment regularly	1	2	-	-
PC18. clean hands with soap, alcohol-based sanitiser 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, sanitise 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/sanitising hands, covering face with a bent elbow while coughing/sneezing, using PPE, etc.	1	1	-	-
<i>Conserve material/energy/electricity</i>	7	16	3	3
PC23. optimise 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	-	1
PC26. optimise use of electricity/energy in various tasks/activities/processes	1	2	-	-
PC27. perform periodic checks of the functioning of the equipment/machine and rectify wherever required	1	2	-	-

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PC28. report malfunctioning and lapses in maintenance of equipment	1	1	-	-
PC29. use electrical equipment and appliances properly	1	2	-	-
<i>Use effective waste management/recycling practices</i>	3	8	-	1
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				
<i>Interact effectively with superiors</i>	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	-	-
<i>Interact effectively with colleagues and customers</i>	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. recognise emotions accurately in self and others to build good relationships	1	4	-	-
PC11. prioritise team and organisation goals above personal goals	-	4	-	1
<i>Respect differences of gender and ability</i>	11	24	-	4
PC12. maintain a conducive environment for all the genders at the workplace	2	5	-	1

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PC13. encourage appropriate behavior and conduct with people across gender	2	5	-	1
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

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
Provided in the above section	
<p>Means of assessment 1</p> <ol style="list-style-type: none"> 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. The assessment for the theory part will be based on knowledge bank of questions created by the SSC. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below.) Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria. 	
<p>Means of assessment 2</p> <p>Add boxes as required.</p>	
<p>Pass/Fail</p> <ol style="list-style-type: none"> To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS. 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 Pack. 	

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SECTION 2

25. EVIDENCE OF LEVEL

Title/Name of qualification/component: Technician 5G – Active Network Installation Level: 4			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	5G network and equipment Installation <ul style="list-style-type: none">• Setting up gNodeB and other 5G network equipment on racks• Checking the availability of correct voltages and sufficient amperage for all the 5G network equipment• Creating Centralised Unit–Distributed Unit (CU-DU) split architecture	<p>The individual is responsible for carrying out rack-level installation to install 5G network equipment and then carrying out the 5G active network installation. The individual also identifies and rectifies faults or malfunctions during the installation process.</p> <p>The individual must have attention to detail along with strong analytical and problem-solving skills.</p> <p>Hence, this is level 4</p>	4

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Professional knowledge	Knowledge of appropriate hardware platform and the virtualization environment <ul style="list-style-type: none"> • Technical specifications of products and processes • Knowledge about the installation of different types of IT equipment, such as open frame racks, rack enclosures, wall-mount racks • Maintenance standards/guidelines 	<p>The individual should have a good understanding of technical specifications and functionalities of products and processes, knowledge functioning techniques, knowledge about managing concern/issues, and standards/guidelines of 5G Active Network Installation</p> <p>Hence, this is level 4.</p>	4
Title/Name of qualification/component: Technician 5G – Active Network Installation Level: 4			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Professional skill	Strong analytical and problem-solving skills <ul style="list-style-type: none"> • Knowledge about the standard dimensions of racks, i.e. height, width, depth, and load rating • Develops appropriate strategies. • Check different types of dimensions of IT equipment, such as servers, storage equipment, network switches, routers, telecommunications hardware, etc. 	<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 5G Active Network Installation.</p> <p>Hence, this is level 4</p>	4
Core skill	Core Domain Skill: <ul style="list-style-type: none"> • Installation of 5G network equipment, such as open frame racks, rack 	<p>The individual is required to carry out rack-level installation to install 5G network equipment and then carry out the 5G active network installation</p>	4

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	<p>enclosures, wall-mount racks, etc</p> <ul style="list-style-type: none">• Installation of blade servers and other high-density and high-wattage loads in multiple racks to prevent problematic hot spots.• Configuring the operating system with the VM ware.	<p>and carries out documentation activities.</p> <p>Hence, this is level 4.</p>	
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Title/Name of qualification/component: Technician 5G – Active Network Installation Level: 4			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Responsibility	<p>Responsibility of 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 workplace • Work along with colleagues and supervisors 	<p>The individual is responsible for carrying out rack-level installation for 5G network equipment, different types of cabling and installations in the process of 5G active network installation. Also, responsible to follow the applicable occupational health and safety instructions during tower climbing.</p> <p>Hence Level 4.</p>	4

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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 evidence</p> <p>We are in touch with the line ministry for the approval. As on date we have not received the approval form the 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.

NSQF QUALIFICATION FILE

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 5G Technician – Active Network Installation

