Approved in 15th NSQC Meeting – NCVET-Dated 27 January 2022 Rationalized in 24th NSQC Meeting – NCVET – Dated 17.11.2022

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

NCVET Code

Telecom Sector Skill Council

2022/TEL/TSSC/07010

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

Name and contact details of individual dealing with the submission

Name: Mr. Sumit Sinha

Position in the organisation: Manager – Standards

Address if different from above: Same as above

Tel number(s): 0124-4148029

E-mail address: standards@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

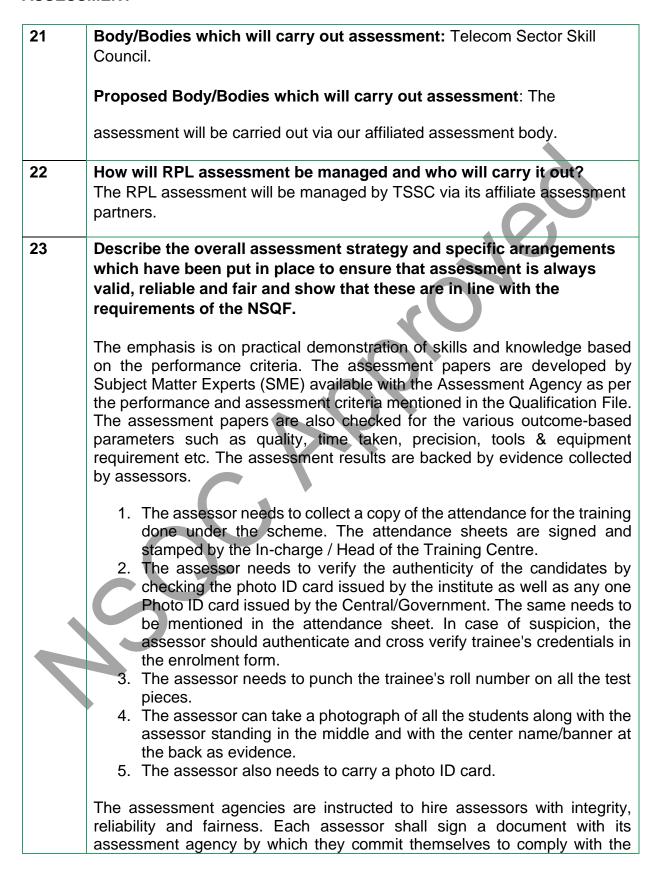
Qualification Title: Telecom Technician – IoT Devices/Systems
1
Qualification Code, if any: TEL/Q6210
NCO code and occupation: NCO-2015/3114.0803
Network Operation and Maintenance
Nature and purpose of the qualification (Please specify whether qualification is short term or long term):
Telecom Technician - IoT Devices/Systems On-site Installation and configuration of IoT devices (nodes), setting up of communication links between nodes and controller.
This QP is for short term program, and it is designed based on industry demand.
Body/bodies which will award the qualification: Telecom Sector Skill Council
Body which will accredit providers to offer courses leading to the qualification: Telecom Sector Skill Council
Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy): Yes. SIP norms for accreditation and SSC norms for affiliation are available on SIP portal.
Occupation(s) to which the qualification gives access:
Network Operation and Maintenance
Job description of the occupation:
The Telecom Technician is responsible for on-site installation and configuration of IoT Devices (nodes), setting up of communication links between nodes and controller (gateway) and further to central servers or devices through external communication links on Wi-fi, 3G or 4G networks on GSM or CDMA.
Licensing requirements: N/A
Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided): N/A
Level of the qualification in the NSQF: Level 4
Anticipated volume of training/learning required to complete the qualification: 540 Hours
Indicative list of training tools required to deliver this qualification:
Raspbian, RASW, SODAQ, Tessel, Pinoccio, OpenPicus, Microduino, LightBlue Bean Punch Through, Flutter, Beagle Board, Arduino Yún, Node-RED, M2MLabs Mainspring, Kinoma, Arduino, Eclipse, IoT Project, Freeboard, Spark, Service Manual/ User Manuals, Program Authentication Form, Customer Feedback form, troubleshooting device/systems, Sample of escalation matrix, organisation structure

	Personal Protection Equipmen	nt, Fire extinguisher a	nd First aid kit				
15	Entry requirements and/or recommendations and minimum age:						
	11th grade pass OR						
	Completed 1st year of 3- year regular diploma	r diploma (after 10th)	and pursuing				
		OR 10th grade pass and pursuing continuous schooling					
	OR						
	10th Grade Pass with 2-year OR	relevant experience					
	Previous relevant Qualification	on of NSQF Level 3.0	with minimum				
	education as 5th Grade pass 17 years	with 2-year relevant of	experience				
16	Progression from the qualitation and academic progression Architecture (End Point Solution)	: Internet of Things (I					
17	Arrangements for the Recog	gnition of Prior learn	ning (RPL):				
	RPL will be based on the same approved Qualification File and Assessment Criteria mentioned in the Qualification File by Telecom Sector Skill Council						
18	International comparability be provided): No	where known (resea	rch evidence to				
19	Date of planned review of the	ne qualification: 27 J	anuary 2025				
20	Formal structure of the qua Mandatory components	lification					
(i)	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)	Level				
1	Bridge Module (Role and responsibilities of Telecom Technician - IOT Device/System)	30	4				
2	Install and configure IOT	140	4				
	devices at customer						
2	premises Perform level 1	120	4				
3	troubleshooting of IOT devices	130	4				

	Sub Total (A)	540	
7	DGT/VSQ/N0102 Employability Skills (60 Hours)	60	4
6	On-the-Job Training	120	4
5	Interact Effectively with Team Members and Customers	30	4
4	Organise work and resources as per health and safety standards	30	4

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SECTION 1 ASSESSMENT



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rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments.

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: Telecom Technician - IoT Devices/Systems

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Telecom Technician - IoT Devices/Systems

Qualification File TEL/Q6210

Sector Skill Council Telecom Sector Skill Council

A

Guidelines for Assessment

- Criteria for assessment for each Qualifications File 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.
- 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 File, every trainee should score a minimum of 70% of aggregate marks.
- 7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification File.

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TEL/N6234: Install and confi	gure IOT de	vices at custo	mer premis	es
Analyse requirements for IoT devices	10	12	-	3
PC1. identify various type of micro-processor boards (Arduino, Raspberry-pi, other customized platforms) and microcontrollers	2	-	-	1
PC2. determine functioning of various types of sensors (humidity, temperature, reed, pressure, gyrometer, accelerometer, video surveillance cameras etc) and actuators	2	6	-	1

PC3. identify short range communication protocols(blue tooth, Zigbee, Wi-fi, etc) and long range protocols including 3G/4G, 6 lowpan, lora etc and their applicability in IoT	2	-	-	-
PC4. examine various components and pin configurations of micro-controller boards and interconnectivity provisions for input/output powersupply etc	2	6	-	1
PC5. identify the key differences between node and a gateway and their respective applications	2	-	5	-
Install IOT devices at suitable points/locations	8	16		2
PC6. generate installation points for capturing desired input parameters and gateway accounting to meet with power supply requirements	2	8		1
PC7. establish communication line connectivity using appropriate nodes, gateway, ethernet and 3G/4G/Wi-fi networks and check functioning of the protocols	2	4	-	-
PC8. locate points on surface and mount IoT devices at identified points/location	2	4	-	1
PC9. manage necessary connections for power supply and earthing by ensuring proper grounding, no floating earth situation and understanding of SNR in case of wiring	2	-	-	-
Configure devices to ensure effective data transfer	14	14	-	3
PC10. interpret connectivity options available on micro controller boards for data transfer	2	-	-	-
PC11. use appropriate cable connectors and microcontroller for connection to data transfer device (desktop/laptop)	2	-	-	-
PC12. install suitable framework on desktop/laptop which is compatible with the micro-controller board	2	4	-	1
PC13. transfer software code to on-board micro- processor through nodes and gateways	2	4	-	-
PC14. compile on-board micro processor code using appropriate framework on desktop/laptop.	2	-	-	1

PC15. identify faults/errors in codes and debug software	2	6	-	-
PC16. manage proper functioning of micro- controller and related devices using appropriate emulators/framework features	2	-	-	1
Test connections between nodes, gateways and backend servers	8	8	-	2
PC17. set up nodes and gateways appropriately for execution of the uploaded software	2	8	-	1
PC18. confirm communication/data transfer using on-screen i/o streams or appropriate led indications (as per the system test manual)	2	-		-
pc19. establish effective connectivity between gateway and local Wi-fi router or 3G/4G connectivity options (pre-configured in the uploaded software on gateway microcontroller), including configuration	2		-	1
PC20. check data transfer and confirm the same from the server end	2	-	-	-
NOS Total	40	50	-	10
TEL/N6236: Perform level	1 troubles	hooting of IOT	devices	
Troubleshoot IOT nodes/gateway	17	32	-	4
PC1. setup test environment and formulate test strategy/test cases	4	6	-	-
PC2. test connectivity between various devices/components, such as between sensors and micro-controller, using appropriate software tools/framework	3	4	-	1
PC3. check all connections and pin/jumper settings to ensure uninterrupted on board power supply	3	6	-	1
PC4. re-load the node software	2	6	-	1
PC5. check on-board memory storage card (for storing node data) using appropriate microcontroller board and software/framework	3	6	-	1

Troubleshoot communication devices	23	18	-	6
PC7. check the working of various connection/communication modules, such as Wifi, 3G and 4G, whichever is applicable at nodes	4	-	-	1
PC8. create appropriate connectivity IDs/password in the software code	3	6	-	1
PC9. check communication link performance matrix between node and gateway using appropriate software tools/framework	4	6	5	1
PC10. re-load nodes and gateway software, if required, and check communication again	4	6		1
PC11. check data transfer from gateway to server	4		-	1
PC12. escalate the issues/concern to the central/main tech team	4		-	1
NIGO Talak	40	50	_	10
NOS Total TEL/N9101: Organise Work and Resou	rces as pe		Safety Sta	
TEL/N9101: Organise Work and Resou	rces as pe		Safety Sta	
TEL/N9101: Organise Work and Resou Perform work as per quality standards	rces as pe	r Health and	Safety Sta -	ndards
TEL/N9101: Organise Work and Resou Perform work as per quality standards PC1. keep workspace clean and tidy PC2. perform individual role and responsibilities as per the job role while taking accountability	rces as pe	r Health and	Safety Sta	ndards
	4	r Health and 9 1	Safety Sta	ndards 2
TEL/N9101: Organise Work and Resou Perform work as per quality standards PC1. keep workspace clean and tidy PC2. perform individual role and responsibilities as per the job role while taking accountability for the work PC3. record/document tasks completed as per	4	r Health and 9 1	Safety Sta	ndards 2 - 1
TEL/N9101: Organise Work and Resou Perform work as per quality standards PC1. keep workspace clean and tidy PC2. perform individual role and responsibilities as per the job role while taking accountability for the work PC3. record/document tasks completed as per the requirements within specific timelines PC4. implement schedules to ensure timely completion of tasks PC5. identify the cause of a problem related to	4	r Health and 9 1	Safety Sta	ndards 2 - 1
TEL/N9101: Organise Work and Resou Perform work as per quality standards PC1. keep workspace clean and tidy PC2. perform individual role and responsibilities as per the job role while taking accountability for the work PC3. record/document tasks completed as per the requirements within specific timelines PC4. implement schedules to ensure	1	r Health and 9 1 1 2	Safety Sta	ndards 2 - 1

PC7. comply with organisation's current health, safety, security policies and procedures	1	1	-	-
PC8. check for water spills in and around the workspace 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	-0	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		-	-
PC13. participate regularly in fire drills or other safety related workshops organised by the company	1	3	-	-
PC14. report any hazard outside the individual'sauthority 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 withcare, 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 bentelbow 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	-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		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
PC30. identify recyclable, non-recyclable and hazardous waste	1	2	-	1
PC31. deposit recyclable and reusable material atidentified 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 v	vith Team	Members and	d Customo	ers
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 asper requirements		3	-	-
PC9. resolve conflicts within the team/withcustomers 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
PC14. assist team members with disability inover coming 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/N0102: Emp	oloyability S	kills (60 Hou	rs)	
Introduction to Employability Skills	1	1	•	-
PC1. identify employability skills required for jobsin various industries	-	-		-
PC2. identify and explore learning andemployability portals	-	.0	3	-
Constitutional values – Citizenship	1	1	-	-
PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. andpersonal values and ethics such as honesty, integrity, caring and respecting others, etc.	6	-	-	-
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	-	-	-	-
Basic English Skills	2	3	-	-
PC7. use basic English for everyday conversationin 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 andcareer	-	-	-	-
PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-) -
Communication Skills	2	2		-
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-		1.	-
PC13. work collaboratively with others in a team	-		-	-
Diversity & Inclusion	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		-	-	-
Financial and Legal Literacy	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 andcompute income, expenses, taxes, investments etc	-	-	-	-
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
Essential Digital Skills	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	-	-	-	-

Entrepreneurship	2	3	-	-
PC23. identify different types of Entrepreneurshipand 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	-	-	<u>-</u>	-
PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-		-
Customer Service	1	2		_
PC26. identify different types of customers	-	-		-
PC27. identify and respond to customer requestsand 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)	\mathcal{C}	-	-	-
pc30. search for suitable jobs using reliable offlineand 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	-	-	-	-
NOS Total	20	30	-	-

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Outcomes to be assessed/NOSs to be	Assessment criteria for the outcome
assessed	
Provided in the above	
section	

Means of assessment 1

- Criteria for assessment for each Qualification File 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

Add boxes as required.

Pass/Fail

- 1. To pass the Qualification File, every trainee should score a minimum of 70% in every Qualification.
- 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.

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SECTION 2

25. EVIDENCE OF LEVEL

NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	Demands a wide range of specialised technical skill, clarity of knowledge and practice in broad range of activity involving standard and non-standard practices. On-site installation and configuration of devices Setting up communication links	The individual will be required to install and configure IoT devices (nodes), setting up of communication links between nodes and controller (gateway) and further to central servers or devices through external communication links. The individual is also responsible for first level of DI or DR. Hence, this is level 4.	4
Professional knowledge	Factual and theoretical knowledge in broad contexts within a field of work or study. • Technical specifications of products and processes • Knowledge about technology involved in workings of products • Knowledge of related software codes • Maintenance standards/guidelines	Job holder is expected to have basic knowledge of various type of micro-processor boards (Arduino, raspberry-Pi etc understand basics of short-range communication protocols (blue tooth, Zigbee etc) and 3G/4G /5G protocols and their applicability in IoT Able to communicate with supervisor/head in technical terms and able to solve the problem. Establish connectivity between gateway and backend servers Understand DI/Dr at IoT nodes	4

Title/Name of qualification/component: Telecom Technician - IoT Devices/Systems Level: 4			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Professional skill	 A range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study. • Maintain quality and work standards • Strategies pertinent to their field that can be used to pursue an advancement in their skills. • Perform timely completion of work. 	Hence, this is level 4. The individual is required to have a range of team handling skills as job requires coordination with multiple teams. The individual should stay updated about the latest developments and new technologies used in the telecom sector Hence, this is level 4.	4
Core skill	Domain Skill	Job holder is expected to be good in communication skills (written and oral) and clarity need to be maintained while interacting with the client. Jobholder is expected to perform: Identify the site for installation of the IoT device Identify the site for installation of the IoT device and gateway	4

Title/Name of qualification/component: Telecom Technician - IoT Devices/Systems Level: 4			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		Arranging the emulator for testing the IoT software and then testing it over the hardware. All this is expected to be carried out in a manner which show a basic understanding of the social and professional environment of working. Furthermore, the jobholder is required to Interpret data sheet All of this requires application of basic arithmetic principles. Hence, this is level 4	
Responsibility	Responsibility of completing the work assigned and reporting the same as per standards. • Understand the job role and follow the organisational policy • Record and report about the work status • Follow safety regulations at work place • Work along with colleagues and	Jobholder based on his own learning and experience, plans the method of executing the daily task. He is in process of continuous self learning and responsible for its own work. He is responsible for maintaining the application uptime and keep it operational & in case of emergency plan.	4
	supervisors	Hence Level 4.	

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SECTION 3 EVIDENCE OF NEED

26	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?
	Feedback from industry was collected with respect to roles for which qualification File development was to be prioritized.
	Skills Gap analysis reports for industry demand Training duration w.r.t current and potential capacity envisaged for potential supply
27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidence
	We have received the line ministry (DoT) approval for this QF.
28	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
	NCVET list of Approved and Under-Development QFs was checked prior to commencement the work.
29	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
	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.

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SECTION 4 EVIDENCE OF PROGRESSION

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