

QUALIFICATION FILE

Wireless Technician

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☒ Apprenticeship

☒ Upskilling ☐ Dual/Flexi Qualification ☒ For ToT ☒ For ToA

☐ General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☒ Future Skills ☐ OEM

NCrF/NSQF Level: 4.0

Submitted By:

Telecom Sector Skill Council

3rd Floor, Plot No 126, Sector - 44 Gurgaon - 122003

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Section 1: Basic Details

1.	Qualification Name	Wireless Technician																
2.	Sector/s	Telecom																
3.	Type of Qualification: ☐ New ☒ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: (QG-04-TL-00083-2023-V1.1-TSSC, V2.0)	Qualification Name of existing/previous version: Wireless Technician															
4.	a. OEM Name b. Qualification Name (Wherever applicable)																	
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-04-TL-04090-2025-V2-TSSC	6. NCrf/NSQF Level: 4.0															
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate																
8.	Brief Description of the Qualification	A Wireless Technician is responsible for installing, configuring, and testing Wi-Fi backhaul equipment (5 GHz) and Wi-Fi access points (2.4 GHz) for broadband connectivity. The individual establishes and maintains backhaul connectivity between Wi-Fi nodes and access points across multiple sites. Additionally, the person performs basic troubleshooting to identify, localize, and rectify cable, connectivity, and equipment faults in coordination with the Network Operations Centre (NOC).																
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>12th grade Pass</td> <td></td> </tr> <tr> <td>2.</td> <td>Completed 2nd year of the 3-year diploma after 10th in Electronics Engineering/ Telecommunication Engineering/ Wireless and Mobile Communication/ Networking and Communication Systems</td> <td></td> </tr> <tr> <td>3.</td> <td>10th grade pass</td> <td>3-years of experience in the operations and maintenance of passive infrastructure</td> </tr> <tr> <td>4.</td> <td>Previous relevant Qualification of NSQF Level 3.0</td> <td>3-years of experience in the operations and maintenance of passive infrastructure</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	12th grade Pass		2.	Completed 2nd year of the 3-year diploma after 10th in Electronics Engineering/ Telecommunication Engineering/ Wireless and Mobile Communication/ Networking and Communication Systems		3.	10th grade pass	3-years of experience in the operations and maintenance of passive infrastructure	4.	Previous relevant Qualification of NSQF Level 3.0	3-years of experience in the operations and maintenance of passive infrastructure
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																
1.	12th grade Pass																	
2.	Completed 2nd year of the 3-year diploma after 10th in Electronics Engineering/ Telecommunication Engineering/ Wireless and Mobile Communication/ Networking and Communication Systems																	
3.	10th grade pass	3-years of experience in the operations and maintenance of passive infrastructure																
4.	Previous relevant Qualification of NSQF Level 3.0	3-years of experience in the operations and maintenance of passive infrastructure																

		5.	Previous relevant Qualification of NSQF Level 3.5	1.5-years of experience in the operations and maintenance of passive infrastructure																			
		b. Age: NA																					
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	17	11. Common Cost Norm Category (I/II/III) (wherever applicable): I																				
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA																					
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	☐ Offline ☐ Online ☒ Blended <table border="1"> <thead> <tr> <th>Training Delivery Modes</th><th>Theory (Hours)</th><th>Practical (Hours)</th><th>OJT Mandatory (Hours)</th><th>OJT Recommended (Hours)</th><th>Total (Hours)</th></tr> </thead> <tbody> <tr> <td>Classroom (offline)</td><td>180</td><td>180</td><td>150</td><td></td><td>510</td></tr> <tr> <td>Online</td><td>180</td><td></td><td></td><td></td><td></td></tr> </tbody> </table> (Refer Blended Learning Annexure for details)				Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	180	180	150		510	Online	180				
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																		
Classroom (offline)	180	180	150		510																		
Online	180																						
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/7422.0802																					
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Wireless Technician (NSQF Level 4)		Senior Technician- Telecom Infrastructure (NSQF Level 4.5)																			
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi																					
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:																					
18.	Is the Job Role Amenable to Persons with Disability	☒ Yes ☐ No If "Yes", specify applicable type of Disability: Motor Impairment, Hearing Impairments, Speech and Language Disorders																					
19.	How Participation of Women will be Encouraged	Encouraging the participation of women in the role of Wireless Technician in the telecom sector can be achieved through strategies that foster diversity, inclusivity, and gender equality. This can include offering targeted training and skill development programs for female candidates interested in these roles. Additionally, creating a workplace culture that is safe, respectful, and inclusive, and free from harassment or discrimination, is crucial for ensuring equal opportunities for women in the telecom sector.																					
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☒ Yes ☐ No NOS: TEL/N9105																					

21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☐ No Colleges ☒ Yes ☐ No				
22.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Mr. Praveen Sirohi Email: ceo@tsscindia.com Website: www.tsscindia.com Contact No.: 0124-4148029				
23.	Final Approval Date by NSQC: 08-05-2025	24. Validity Duration: 3 years			25. Next Review Date: 30-04-2028	

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory Pr.-Practical OJT-On the Job Training Man.-Mandatory Rec.-Recommended Proj.-Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Carry out installation and wiring of wireless communication equipment	TEL/N4122, v6.0	Core	4.0	4	25	35	60	-	120	30	50	-	20	100	20
2.	Configure equipment and establish wireless network connectivity	TEL/N4123, v5.0	Core	4.0	4	25	65	30	-	120	30	50	-	20	100	20
3.	Diagnose and rectify wireless network faults	TEL/N4124, v5.0	Core	4.0	3	30	30	30	-	90	30	50	-	20	100	20
4.	Install, test, and maintain UPS and domestic power supply	TEL/N4125, v4.0	Core	4.0	3	30	30	30	-	90	30	50	-	20	100	20
5.	Follow sustainable practices in telecom infrastructure installation	TEL/N9105, v1.0	Core	4.0	1	10	20	-	-	30	30	50	-	20	100	10

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
6.	Employability Skills (60 Hours)	DGT/VSQ/N 0102, v1.0	Non-Core	4.0	2	60	-	-	-	60	20	30	-	-	50	10
Duration (in Hours) / Total Marks					17	180	180	150	-	510	170	280	-	100	550	100

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Educational Qualification: Graduate in any discipline, preferably Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. Industry & Training Experience: 6 years of experience after Graduation in Optical Fiber/ Broadband Domain. Certification: "Trainer" mapped to the Qualification Pack "MEP/Q2601, v3.0". Minimum accepted score is 80% aggregate.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Educational Qualification: Graduate in any discipline, preferably Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. Industry & Training Experience: 8 years of experience after Graduation in Optical Fiber/ Broadband Domain. Certification: "Master Trainer" mapped to the Qualification Pack "MEP/Q2602, v3.0". Minimum accepted score is 90% aggregate.
3.	Tools and Equipment Required for Training	☐ Yes ☐ No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NA

Assessment - Minimum Qualifying Percentage

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

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

Minimum Pass Percentage – NOS/Module-wise: - % (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate in any discipline, preferably Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. Industry & Training Experience: 6 years of experience after Graduation in Optical Fiber/ Broadband Domain. Certification: "Assessor" mapped to the Qualification Pack "MEP/Q2701, v3.0". Minimum accepted score is 80% aggregate.
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate in any discipline, preferably Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. Industry & Training Experience: 6 years of experience after Graduation in Optical Fiber/ Broadband Domain. Certification: "Assessor" mapped to the Qualification Pack "MEP/Q2701, v3.0". Minimum accepted score is 80% aggregate.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate in any discipline, preferably Electronics and Communication /Telecom/ Information Technology/ Computer Science and other relevant fields. Industry & Training Experience: 8 years of experience after Graduation in Optical Fiber/ Broadband Domain. Certification: "Lead Assessor" mapped to the Qualification Pack "MEP/Q2702, v3.0" Minimum accepted score is 90% aggregate.
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Offline/Online
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): NA
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): NA
3.	Government /Industry initiatives/ requirement (Yes/No): NA
4.	Number of Industry validation provided: 21
5.	Estimated nos. of persons to be trained and employed: 5080
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: <i>Approved</i> If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

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

Annexure 1: Evidence of Level

NCrf/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrf/NSQF level descriptor	NCrf/NSQF Level
Professional Theoretical Knowledge/Process	Carry out installation and wiring of wireless communication equipment - Prepare, wire, and install the system - Conduct quality checks and performance testing - Complete documentation and site cleanup Configure equipment and establish wireless network connectivity - Configure the equipment - Establish and verify connectivity - Record configuration settings and test results	A Wireless Technician at NSQF Level 4 installs, configures, and maintains wireless communication equipment, including system wiring, equipment setup, and performance testing. They diagnose and repair Wi-Fi backhaul (5 GHz) and access points (2.4 GHz), maintain UPS and domestic power supplies, and ensure compliance through preventive maintenance. They follow sustainable practices by managing waste, using energy-efficient methods, and guiding team members. With expertise in network installation, fault diagnosis, and power	4.0

	Diagnose and rectify wireless network faults • Diagnose and rectify wiring faults • Troubleshoot and repair Wi-Fi backhaul equipment (5 GHz) • Troubleshoot and restore Wi-Fi access points (2.4 GHz) • Carry out documentation and restore the website Install, test, and maintain UPS and domestic power supply • Install UPS and check electrical parameters • Conduct power supply checks and ensure compliance • Perform preventive maintenance and troubleshooting Follow Sustainable Practices • Segregate recyclable and refurbishable components • Dispose of waste • Use Energy-Efficient Methods • Follow environmental standards and compliance guidelines • Guide team members.	supply maintenance, this role ensures reliable wireless service while adhering to industry and environmental standards.	
Professional and Technical Skills/ Expertise/ Professional Knowledge	• Know how to install, configure, and maintain wireless communication equipment, including system wiring and equipment setup. • Know how to diagnose and rectify faults in Wi-Fi backhaul (5 GHz) and Wi-Fi access points (2.4 GHz). • Understand the process of configuring equipment, establishing wireless network connectivity, and verifying performance. • Know how to install, test, and maintain UPS systems and domestic power supplies, ensuring compliance with electrical standards. • Understand quality checks, performance testing, and documentation for accurate record-keeping and compliance. • Know how to perform preventive maintenance, troubleshoot faults, and restore wireless network	A Wireless Technician requires both theoretical knowledge and hands-on expertise to install, configure, and maintain wireless communication equipment. Responsibilities include system wiring, equipment setup, and ensuring UPS and power supply compliance through testing and maintenance. The technician diagnoses and rectifies faults in Wi-Fi backhaul (5 GHz) and access points (2.4 GHz), configures network devices, and verifies performance. They also record settings, troubleshoot issues, and restore network systems. Technicians follow safety protocols, adopt sustainable practices, and guide team members. This NSQF Level 4 role emphasizes independent execution while ensuring reliable service delivery.	4.0

	systems. • Understand sustainable practices, including segregating recyclable components, proper waste disposal, and using energy-efficient methods. • Know how to guide team members in adhering to safety protocols and environmental standards. • Understand the importance of site preparation, post-installation verification, and compliance with industry guidelines.		
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	• Develop problem-solving skills to diagnose and rectify faults in wireless communication systems. • Demonstrate the ability to install, configure, and maintain wireless equipment, including Wi-Fi backhaul (5 GHz) and access points (2.4 GHz). • Apply technical knowledge to perform quality checks, verify network performance, and ensure compliance with industry standards. • Exhibit effective communication skills to document processes, report issues, and guide team members. • Design sustainable practices by selecting energy-efficient methods and managing recyclable components. • Select appropriate tools and techniques for troubleshooting, preventive maintenance, and system restoration. • Define work priorities to ensure timely project completion while maintaining safety and quality standards. • Demonstrate adaptability to new technologies and emerging trends in wireless communication and power systems. • Apply entrepreneurial thinking to identify opportunities for system optimization and process improvement. • Exhibit a customer-centric approach by delivering reliable, high-quality service and maintaining	Employment readiness for a Wireless Technician focuses on problem-solving, technical proficiency, and sustainable practices. They must install, configure, and maintain wireless systems, troubleshoot faults, and ensure compliance with industry standards. Understanding safety protocols, environmental guidelines, and network technologies is essential. Proactive maintenance, accurate documentation, and system optimization ensure reliable performance. Developing adaptability to new technologies and critical thinking enhances service quality. This NSQF Level 4 role emphasizes independent execution, safety compliance, and sustainable operations.	4.0

	professional standards.		
Broad Learning Outcomes/Core Skill	The Broad Learning Outcomes/Core Skill are: • Understand the principles of wireless communication systems, including installation, configuration, and maintenance. • Apply technical skills to diagnose and rectify faults in Wi-Fi backhaul (5 GHz) and Wi-Fi access points (2.4 GHz). • Demonstrate the ability to install, test, and maintain UPS systems and domestic power supplies while ensuring compliance with electrical standards. • Develop problem-solving skills to troubleshoot network issues, perform preventive maintenance, and restore system functionality. • Exhibit effective communication and documentation skills for recording system configurations, test results, and maintenance reports. • Apply safety protocols and environmental standards, including proper waste management and energy-efficient practices. • Demonstrate the ability to guide team members, ensuring adherence to industry regulations and best practices. • Understand sustainable practices by implementing energy-efficient solutions and complying with environmental guidelines. • Develop critical thinking and decision-making skills to optimize network performance and ensure reliable service delivery. • Exhibit adaptability to emerging technologies and the ability to work independently while maintaining quality and safety standards.	A Wireless Technician at NSQF Level 4 requires expertise in installing, configuring, and maintaining wireless communication systems, including Wi-Fi backhaul (5 GHz) and access points (2.4 GHz). They ensure safety compliance, environmental sustainability, and accurate documentation. They must demonstrate problem-solving, communication, and teamwork skills for troubleshooting, preventive maintenance, and system optimization. Working under defined procedures, this Level 4 role emphasizes practical knowledge, independent execution, and adherence to industry standards.	4.0
Responsibility	The responsibilities are: • Prepare for the installation of racks and equipment for 5G networks	A Wireless Technician is responsible for installing, configuring, and testing Wi-Fi backhaul equipment (5 GHz) and Wi-Fi access points (2.4 GHz) for broadband connectivity. The individual	4.0

	• Install and secure racks and equipment for 5G networks • Conduct post-installation verification and troubleshooting • Carry out power, earthing, and RF cabling • Install, configure, and commission backhaul connectivity. • Conduct pre-climb tower inspection • Check safety equipment and assess work site conditions • Execute tower operations following health and safety protocols. • Segregate recyclable and refurbishable components • Dispose of waste • Use Energy-Efficient Methods • Follow environmental standards and compliance guidelines • Guide team members.	establishes and maintains backhaul connectivity between Wi-Fi nodes and access points across multiple sites. Additionally, the person performs basic troubleshooting to identify, localize, and rectify cable, connectivity, and equipment faults in coordination with the Network Operations Centre (NOC).	
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Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	WiFi Backhaul Equipment (5 GHz)	Pieces	1
2.	WiFi Antenna (2.4 GHz)	Pieces	6
3.	WiFi Access Point (2.4 GHz)	Pieces	2
4.	Switches	Pieces	2
5.	Router with Power Adaptor	Pieces	4
6.	Packet Tracer Software	Pieces	6
7.	Internet/Broadband Connectivity	Pieces	1
8.	Hand Tool Kit	Pieces	6
9.	Ethernet Tester	Pieces	3
10.	Connectors (RJ-45 & RJ-11)	Pieces	11
11.	LAN Ethernet Straight Cable	Ft	11
12.	LAN Ethernet Cross Cable	Ft	11
13.	UTP, STP, Twisted Cables	Ft	11
14.	VSWR Equipment	Pieces	2

15.	PPE- Protective gloves, safety goggles	Set	30
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Classroom Aids

The aids required to conduct sessions in the classroom are:

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

Annexure 3: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1.	Ibus Network and infrastructure Pvt.Ltd.	TK Narayanan	Deputy General Manager Commercial	7th Floor Tower B, Vatika Towers Golf Crouse Road Sector 54 Gurugram, Haryana India 122011		tk.narayanan@ibusnetworks.com	
2.	ICAI Computer & IT Skill Enhancement Institute (ICSE)	Er. Kamaljeet Kumar Sharma	Managing Director	#2266 (Site No. 24), Phase 7/Sector 61, S.A.S Nagar (Mohali) 160062, Punjab (India)		contact@icseinstitute.com kksmhl@gmail.com	
3.	JRS Global Networks Pvt.Ltd.	Arvind Yadav	Asst. Account Manager Telecom	A 22, Sector-65 Noida, UP-201307		account3@jrsgl.com	
4.	Expert Consultant & Coach for Telecom Fibre Optics, FTTx and Broadband	Dr. Anuj Shrivastava	Ex Executive Director Indian Telecom Services	Ghaziabad, UP		srianujkumar@gmail.com	
5.	Jio Platforms Limited (Jio)	Abhijay Singh Sisodia	Senior Manager	Office-101, Saffron, Nr.Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad-380006 Gujarat		abhijay.sisodia@ril.com	

6.	Vodafone India Shared Service Private Limited	Manmohan Sharma	Deputy General Manager	0-4th floor, Cluster D, Wing 3, EON Free Zone, Kharadi, Pune, Maharashtra 411014	manmohan.sharma@vodafone.co.in	
7.	Teoco	Naman Khosla Abhijay Singh Sisodia	Technical Consultant	Infotech Center -6th floor, 14/2 Old Delhi Gurgaon Road, Dundahera, Gurgaon – 122016, India	naman.khosla@teoco.com	
8.	Global Logic	Rashid Muhammad	Associate Manager	Plot No.7, Oxygen Business Park SEZ, Tower, 3, Noida-Greater Noida Expy, Sector 144, Noida, Uttar Pradesh 201304	rashid.muhammad@globallogic.com	
9.	Mahendra Technical Institute	Mahendra Brmukh	Chairman and Managing Director	1st Floor, 3/B M B Classic, Telco Road, Near Kailash Dairy, Chinchwad Station, Pune – 411019 Maharashtra, India	info.mtipune@gmail.com	
10.	Amazon	Anshul Gupta	Program Manager	Bangalore	anshigu@amazon.com	
11.	Stealth Mode Startup Company	Avadh Gupta	Founder, Co-Founder & Investor	Pune	avadhmac@gmail.com	
12.	Ranitronics	Yakama Vijayasree Kumar	Founder & Technical Consultant	Villa 302, Namaha Rhythm, Road No. 1, Kavya Avenue, Bachupally, Hyderabad – 500090, Telangana	info@ranitronics.com	
13.	Eco Works	Deepali Sinha Khetriwal	Founder & CEO	C-601, Kalpataru Regency Phase 1, Kalyani Nagar, Pune 411006	deepali@ecowork.international	
14.	Himachal Futuristic Communications Limited (HFCL)	Amit Agarwal	VP PLM	8, Commercial Complex, Masjid Moth, Greater Kailash - 11, New Delhi - 110048, India	amit.agarwal@hfcl.com	
15.	Tata Communication	Alka Asthana	Head of Regulatory Affairs	Next Gen Tower Outer Ring Road, GK-1, New Delhi – 110048	alka.asthanatelecom@gmail.com	
16.	Reckitt Benckiser	Sachin Sharma	Demand Manager	Udyog Vihar, Phase V, Gurgaon, Haryana	sachin.sharma@rb.com	
17.	Sycamore Informatics	Rahul Kumar Kaushik	Product Manager	No. 6, 2nd Floor, 2nd Main, Arekere, Off Bannerghatta Road, Bangalore 560076	rahul.kaushik@sycamoreinformatics.com	

18	Nokia	Saurabh Singh	Software Quality Engineer	L5 and L6 Building Manyata Embassy Business Park Outer Ring Road, Nagawara 560045		saurabh.9.singh@nokia.com	
19	Edge Telecom	Arun Singh	Senior Project Engineer	9th floor, ILD Trade Centre, 904, main, Badshahpur Sohna Rd Hwy, near Subhash Chowk, Gurugram, Haryana 122018		arun.singh@edgetelecom.org	
20	Conduent	Prince Jain	Sr. Business Analyst	Plot No. 20, Candor Tech Space, Noida 201304		prince.jain@conduent.com	
21	Artificial Intelligence Technologies	Rohit Kumar Sharma	Manager – Development	A-21, sector 4, Block A, Kailash Colony, Greater Kailash, New Delhi,		rohit.sharma@aituniversal.com	
22	Ecom Express.in	Shekhar Poswal	Senior QA L1	10 th Floor, Ambience Corporate Tower II, Ambience Island, Gurugram 122001		Shekhar.p@ecomexpress.in	
23	Paarminder Electronics Process Consultancy	Paarminder Singh	Consultant	New Delhi		singhpaarminder@gmail.com	
24	Senryaku Consulting	Udit Kaushik	Co-founder	Senryaku Management Private Limited Address: UTC031, DLF The Ultima, Sector 81, Gurugram, HR 122004		udit.kau@gmail.com	
25	Sopra Steria	Rikan Singh Tomar	Team Leader	Plot No. 20 & 21, Seaview Special Economic Zone, Building 4, Sector 135, Noida, Uttar Pradesh 201304		rikan.singh@soprasteria.com	

Annexure 4: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates	Women	People with Disability
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	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2025	1524	762	76	38	76	38
2026	1524	762	76	38	76	38
2027	2032	1016	102	51	102	51

Data to be provided year-wise for next 3 years

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

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
2.0	April 2022 to March 2023	1236	1200	870									
2.0	April 2023 to March 2024	684	642	505									
2.0	April 2024 to March 2025	2141	464	415									

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

- 1.
- 2.

Content availability for previous versions of qualifications:

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

Languages in which Content is available:

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET "Guidelines for Blended Learning for Vocational Education, Training & Skilling" available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☒ Theory/ Lectures - Imparting theoretical and conceptual knowledge	LMS Portal- TSSC Telco Learning Portal will be utilized with online content/virtual lectures (Telcolearning.com)	100:100
2	☒ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	LMS Portal- TSSC Telco Learning Portal will be utilized with online content/virtual lectures (Telcolearning.com)	100:100
3	☐ Showing Practical Demonstrations to the learners		
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☐ Tutorials/ Assignments/ Drill/ Practice		
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure 6: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
TEL/N4122: Carry out installation and wiring of wireless communication equipment	<i>Prepare, wire, and install the system</i>	16	20	-	11
	PC1. review and interpret installation plans, site layouts, and job specifications	1	2	-	0.5
	PC2. coordinate with superiors and site personnel to confirm job requirements and site access	1	1	-	0.5
	PC3. select and collect appropriate tools, equipment, and materials as per installation plans	1	1	-	0.5
	PC4. identify and use suitable cables (OFC, UTP/STP, coaxial, feeder cable) and connectors based on site requirements	1	1	-	0.5
	PC5. measure and verify cable lengths, ensuring continuity and optimal performance	1	1	-	1
	PC6. inspect cable routes for electrical hazards, environmental constraints, and obstructions	1	2	-	0.5
	PC7. liaise with local authorities and comply with regulatory requirements for outdoor installations	2	1	-	0.5
	PC8. determine optimal installation locations adhering to structured cabling norms and signal coverage guidelines	2	2	-	1
	PC9. ensure systematic and organized wiring from Point of Presence (PoP) to designated sites	1	1	-	1
	PC10. secure and route cables neatly using appropriate clips, trays, and conduits	1	2	-	1
	PC11. install, terminate, and test feeder cables and connectors, ensuring minimal transmission loss	1	1	-	1
	PC12. mount equipment securely following manufacturer guidelines and electrical	1	2	-	1

	safety standards				
	PC13. implement proper grounding and earthing techniques for system safety and reliability	1	1	-	1
	PC14. conduct initial equipment setup, firmware updates, and basic configuration as required	1	2	-	1
	<i>Conduct quality checks and performance testing</i>	5	15	-	4
	PC15. test cable connectivity, transmission loss, and signal strength using appropriate testing tools	1	2	-	0.5
	PC16. re-terminate cables if the transmission loss exceeds prescribed limits	1	3	-	0.5
	PC17. verify power supply, grounding, and voltage levels to prevent equipment damage	1	3	-	1
	PC18. configure and test Wi-Fi backhaul and access point connectivity for seamless operation	1	5	-	1
	PC19. troubleshoot and rectify basic connectivity issues and escalate unresolved issues	1	2	-	1
	<i>Complete documentation and site cleanup</i>	9	15	-	5
	PC20. dispose of installation waste materials as per environmental and workplace safety guidelines	2	2	-	1
	PC21. restore the site to its original or improved condition, ensuring customer satisfaction	1	3	-	1
	PC22. maintain accurate records of installation, testing results, and equipment details	2	4	-	1
	PC23. complete all required installation documents and reports in the prescribed format	2	3	-	1
	PC24. collect customer acknowledgment and necessary payments, if applicable	2	3	-	1
	Total Marks	30	50	-	20
TEL/N4123: Configure equipment and establish wireless network connectivity	<i>Configure the equipment</i>	14	18	-	8
	PC1. install and securely mount Wi-Fi backhaul equipment and access points as per site specifications	1	2	-	1
	PC2. connect feeder cables with antennas and measure VSWR/return loss to ensure optimal signal transmission	2	2	-	1
	PC3. align antennas based on surveyed signal strength and adjust orientation for optimal connectivity	2	2	-	1
	PC4. establish physical connections between Wi-Fi backhaul equipment, Wi-Fi access points, and network switches	2	2	-	1
	PC5. configure equipment settings, including IP addresses, subnet masks, and default gateways, according to base configurations	2	3	-	1
	PC6. access network settings using default login credentials and update them with secure passwords	1	3	-	1
	PC7. apply encryption and authentication settings (WPA2/WPA3) to secure network access	2	2	-	1
	PC8. update firmware and software patches to ensure compliance with industry standards and security best practices	2	2	-	1
	<i>Establish and verify connectivity</i>	10	12	-	7
	PC9. ensure all cables and connectors are properly secured and free from damage	1	2	-	1
	PC10. conduct a ping test to the service provider gateway and analyze latency, packet	2	2	-	2

	loss, and jitter parameters				
	PC11. validate throughput performance using network testing tools and document results	2	2	-	1
	PC12. configure end-user devices with appropriate SSIDs, security credentials, and DNS settings	2	2	-	1
	PC13. verify end-user connectivity by executing network diagnostic commands and troubleshooting connectivity issues	2	2	-	1
	PC14. perform a security compliance check by testing firewall settings, encryption status, and unauthorized access points	1	2	-	1
	<i>Record configuration settings and test results</i>	6	20	-	5
	PC15. maintain accurate records of network configurations, including IP assignments, security protocols, and firmware versions	1	6	-	1
	PC16. document testing procedures, expected results, and any deviations observed during connectivity tests	2	6	-	2
	PC17. create a troubleshooting log with identified issues, root causes, and corrective actions taken	2	7	-	1
	PC18. educate customers on basic troubleshooting techniques and network optimization tips	1	1	-	1
Total Marks		30	50	-	20
TEL/N4124: Diagnose and rectify wireless network faults	<i>Diagnose and rectify wiring faults</i>	10	13		5
	PC1. conduct continuity tests using appropriate tools and localize fault distance	2	2	-	1
	PC2. perform re-connectorization/crimping of cable pairs with connectors or replace faulty cables	2	3	-	1
	PC3. replace feeder cables or antennas as per network specifications	2	3	-	1
	PC4. conduct signal and interference tests to validate cable performance	2	2	-	1
	PC5. reconfigure network devices, if necessary, after cable replacement	2	3	-	1
	<i>Troubleshoot and repair Wi-Fi backhaul equipment (5 GHz)</i>	11	15	-	6
	PC6. interpret status and error indicators on the Wi-Fi backhaul equipment	2	5	-	1
	PC7. connect and operate a handheld network tester for fault diagnosis	2	2	-	1
	PC8. use cable and antenna testers to check connectivity and performance	2	2	-	1
	PC9. verify and adjust antenna alignment for optimal signal strength	2	2	-	1
	PC10. analyze diagnostic results to localize and rectify faults in backhaul connectivity	2	2	-	1
	PC11. perform firmware updates and configuration resets, if required	1	2	-	1
	<i>Troubleshoot and restore Wi-Fi access points (2.4 GHz)</i>	5	12	-	5
	PC12. identify status and diagnostic indicators on Wi-Fi access points	1	3	-	1
	PC13. connect and utilize network testing tools for fault detection	1	2	-	1
	PC14. interpret output from troubleshooting equipment and software diagnostics	1	3	-	1
	PC15. access Wi-Fi access point settings through a browser or application to perform configuration checks	1	2	-	1
	PC16. reset, update, or replace malfunctioning Wi-Fi access points based on diagnostic findings	1	2	-	1
	<i>Carry out documentation and restore worksite</i>	4	10		4
	PC17. record troubleshooting steps and localized faults in logs or digital records	1	3		1

	PC18. document all modifications and replacements undertaken during fault rectification	1	2		1
	PC19. restore any worksite changes made during fault repair to meet client and workplace standards	1	3		1
	PC20. dispose of damaged components and materials following environmental and safety guidelines	1	2		1
	Total Marks	30	50	-	20
TEL/N4125: Install, test, and maintain UPS and domestic power supply	<i>Install UPS and check electrical parameters</i>	<i>13</i>	<i>18</i>		<i>8</i>
	PC1. inspect and verify power supply connections for voltage, current, earthing, and continuity	1	2	-	1
	PC2. identify appropriate UPS type and capacity based on the equipment load and power requirements	2	2	-	1
	PC3. plan installation activities, ensuring adherence to manufacturer guidelines and safety protocols	2	2	-	1
	PC4. read and interpret wiring diagrams and circuit layouts to ensure correct installation	2	2	-	1
	PC5. install and securely mount UPS as per the specified standards	2	3	-	1
	PC6. route and connect power supply through UPS, ensuring proper input and output wiring	1	3	-	1
	PC7. check for polarity and phase alignment to avoid incorrect wiring	1	2	-	1
	PC8. verify the proper grounding of the UPS and connected equipment	2	2	-	1
	<i>Conduct power supply checks and ensure compliance</i>	<i>9</i>	<i>10</i>	<i>-</i>	<i>5</i>
	PC9. use multimeters and clamp meters to measure and validate voltage, current, and earthing resistance	1	2	-	1
	PC10. test power backup functionality by simulating a power failure scenario	2	2	-	1
	PC11. ensure the UPS output matches the required power quality standards	2	2	-	1
	PC12. identify and report fluctuations or irregularities in power supply that may affect equipment performance	2	2	-	1
	PC13. apply safety precautions while handling high-voltage connections and power tools	2	2	-	1
	<i>Perform preventive maintenance and troubleshooting</i>	<i>8</i>	<i>22</i>	<i>-</i>	<i>7</i>
	PC14. inspect and test UPS batteries for charge retention and health status	1	6	-	1
	PC15. replace faulty or degraded batteries following standard replacement procedures	2	6	-	2
	PC16. clean and secure UPS ventilation to prevent overheating	2	7	-	1
	PC17. diagnose and troubleshoot common UPS faults such as overloading, short circuits, and failed inverters	1	1	-	1
	PC18. document test results, maintenance actions, and reported issues as per standard procedures	1	1	-	1
	PC19. communicate findings and recommendations to customers or supervisors	1	1	-	1
	Total Marks	30	50	-	20
TEL/N9105: Follow sustainable practices in	<i>Segregate recyclable and refurbishable components</i>	<i>6</i>	<i>12</i>	<i>-</i>	<i>6</i>
	PC1. identify telecom components suitable for recycling or refurbishment	2	4	-	2
	PC2. sort electronic and non-electronic waste based on disposal protocols	2	4	-	2

telecom infrastructure installation	PC3. label and store recyclable and refurbishable components separately	2	4	-	2
	<i>Dispose of waste</i>	6	10	-	5
	PC4. follow approved procedures for the safe disposal of hazardous and non-hazardous waste	2	4	-	2
	PC5. coordinate with authorized e-waste recycling units or certified disposal agencies	1	3	-	2
	PC6. handle batteries, cables, and electronic circuits safely to prevent environmental hazards	1	3	-	1
	<i>Use Energy-Efficient Methods</i>	6	10	-	3
	PC7. select and use energy-efficient tools and equipment during telecom installations	2	4	-	1
	PC8. apply best practices to minimize energy consumption	2	3	-	1
	PC9. position and install telecom infrastructure to optimize efficiency and sustainability	2	3	-	1
	<i>Follow environmental standards and compliance guidelines</i>	8	12	-	4
	PC10. adhere to national and international environmental regulations for telecom infrastructure installation	2	3	-	1
	PC11. maintain records of waste disposal, recycling, and sustainability measures	2	3	-	1
	PC12. assist in periodic audits to assess compliance with green standards	2	3	-	1
	PC13. follow workplace sustainability protocols and report non-compliance	2	3	-	1
	<i>Guide team members</i>	4	6	-	2
	PC14. guide team members on sustainable telecom installation guidelines and practices	2	3	-	1
	PC15. encourage environmentally responsible work habits	2	3	-	1
Total Marks		30	50	-	20
DGT/VSQ/N0102: Employability Skills (60 Hours)	<i>Introduction to Employability Skills</i>	1	1	-	-
	PC1. identify employability skills required for jobs in various industries	-	-	-	-
	PC2. identify and explore learning and employability portals	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
	PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
	PC4. follow environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	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	-	-	-	-
	<i>Basic English Skills</i>	2	3	-	-
	PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
	PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
	PC9. write short messages, notes, letters, e-mails etc. in English	-	-	-	-
	<i>Career Development & Goal Setting</i>	1	2	-	-

PC10. understand the difference between job and career	-	-	-	-
PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
<i>Communication Skills</i>	2	2	-	-
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
PC13. work collaboratively with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	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	-	-	-	-
<i>Financial and Legal Literacy</i>	2	3	-	-
PC16. select financial institutions, products, and services as per requirement	-	-	-	-
PC17. carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18. identify common components of salary and compute income, expenses, taxes, investments etc.	-	-	-	-
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation				
<i>Essential Digital Skills</i>	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	-	-	-	-
<i>Entrepreneurship</i>	2	3	-	-
PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
<i>Customer Service</i>	1	2	-	-
PC26. identify different types of customers	-	-	-	-
PC27. identify and respond to customer requests and needs in a professional manner	-	-	-	-
PC28. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	2	3	-	-
PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC31. apply to identified job openings using offline/online methods as per requirement	-	-	-	-
PC32. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-

	PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
	Total Marks	20	30	-	-
	Grand Total	200	340		110

Annexure 7: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

Mention the detailed assessment strategy in the provided template.

1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SDSM/SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SIP
- Check the duration of the training.
- Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
- Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
- Check the availability of the Lab Equipment for the particular Job Role.

3. Assessment Quality Assurance levels / Framework:

- Question papers created by the Subject Matter Experts (SME)
- Question papers created by the SME verified by the other subject Matter Experts
- Questions are mapped with NOS and PC
- Question papers are prepared considering that levels 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
- Assessor must be ToA certified & trainer must be ToT Certified
- Assessment agency must follow the assessment guidelines to conduct the assessment

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location

- Center photographs with signboards and scheme specific branding
- Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
- Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos

5. Method of verification or validation:

- Surprise visit to the assessment location
- Random audit of the batch
- Random audit of any candidate

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored
- Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
- Soft copies of the documents & photographs of the assessment are stored in the Hard Drives

The trainee will be tested for the acquired skill, knowledge and attitude through formative/ summative assessment at the end of the course and as this NOS and MC is adopted across sectors and qualifications, the respective AB can conduct the assessments as per their requirements.

Annexure 8: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training
TSSC	Telecom Sector Skill Council
TRAI	Telecom Regulatory Authority of India
PoP	Point of Presence
Wi-Fi	Wireless Fidelity
SSIDs	Service Set Identifiers
DNS	Domain Name System
EMI	Electromagnetic Interference
EMC	Electromagnetic Compatibility

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf