CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

IT-ITeS Sector Skills Council NASSCOM (SSC NASSCOM)
Plot No. – 7, 8, 9 & 10
Sector – 126, Noida
Uttar Pradesh - 201303

Name and contact details of individual dealing with the submission

Name: Ms Divya Gupta

Position in the organisation: Solutions & Partner Ecosystem lead

Address if different from above: Same as above

Tel number(s): Board No:0120 4990111

E-mail address: dgupta@nasscom.in

List of documents submitted in support of the Qualifications File

- 1. Functional Analysis Document
- 2. Occupational Analysis Document
- 3. Qualification Pack
- 4. Occupational Map
- 5. Model Curriculum
- 6. Summary Sheet
- 7. Industry Validations

SUMMARY

1	Qualification Title	IoT – Network Specialist
2	Qualification Code, if any	SSC/Q8208
3	NCO code and occupation	NCO-2015/2523
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	 This is a Qualification Pack (QP) containing National Occupational Standards for the job role "IoT – Network Specialist" The purpose of the qualification is to help individuals at this job perform design of network architecture for end-to-end IoT solutions and for the maintenance, management, monitoring and troubleshooting of networks. The qualification will also provide them with the appropriate communication skills to build relationships with others and continuously develop their knowledge and analytical abilities.
5	Body/bodies which will award the qualification	SSC NASSCOM
6	Body which will accredit providers to offer courses leading to the qualification	IT-ITeS SSC Presently, Accreditation is not prescribed; affiliation is one of the models.
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 are available for affiliation on SMART portals
8	Occupation(s) to which the qualification gives access	Internet of Things
9	Job description of the occupation	Individuals at this job are responsible for working and collaborate with various stakeholders involved in the development of IoT solutions. They will need to have excellent critical thinking, to design network architecture considering capacity, reliability and security requirements.
10	Licensing requirements	NA
11	Statutory and Regulatory	Though some standards for cyber security
	requirement of the relevant sector (documentary evidence to be provided) Level of the qualification in the	exist, currently no standards specific to Statutory and Regulatory exist for Internet of Things.

	NSQF					
13	Anticipated volume of	374 hours (138 hours the	ory, 236 hours			
	training/learning required to	practical)	,			
	complete the qualification	1 /				
14	Indicative list of training tools	Whiteboard and Market	rs			
	required to deliver this	 LCD Projector and Lap 				
	qualification	presentations				
	4	 Lab equipped with the 	following: -			
		PCs/Laptops				
		Internet with Wi-Fi (Mir	n 2 Mbps			
		Dedicated)				
		 Chart paper and sketcl 	n pens			
		 Latest version of statis 				
		packages and IDEs				
		 Chart paper, markers, 	picture magazines			
		and old newspapers				
15	Entry requirements and/or	Graduate in any discipline preferably				
	recommendations and minimum	Science/Computer Science	ce/Electronics and			
	age	Engineering /Information Technology who				
		at least 18 years of age				
16	· · · · · · · · · · · · · · · · · · ·					
	(Please show Professional and	following:				
	academic progression)	- access to other qualifications at the same				
		NSQF level - Security Sp	ecialist, Associate			
		Consultant, Associate Pro	duct Manager			
		- access to related qualific	cation(s) at the			
		next NSQF level - Senior	Network			
		Specialist, Senior Security	/ Specialist,			
		Consultant				
17	Arrangements for the Recognition	- Response to market for	es for RPL.			
	of Prior learning (RPL)	- RPL assessments will be	e the same as our			
		normal assessments.				
18	International comparability where	Not Yet Established				
	known (research evidence to be					
	provided)					
19	Date of planned review of the	11 th March 2020				
	qualification.					
20	Formal structure of the qualification	1				
	Mandatory components					
	Title of component and	Fetimated size				
	Title of component and identification code/NOSs/Learning	Estimated size (learning hours)	Level			

(i)	Bridge Modules	59	-
(ii)	SSC/N8227 (Design network architecture for end-to-end IoT solutions)	75	7
(iii)	SSC/N8228 (Design network	40	6
	architecture considering capacity, reliability and security		
(iv)	requirements)	75	6
(v)	SSC/N8229 (Maintain, manage, monitor and troubleshoot IoT network)	25	6
(vi)	SSC/N8238 (Create technical documents and manuals)	25	6
(vii	SSC/N9005 (Develop your knowledge, skills and competence)	25	6
)		25	c
(viii)	SSC/N9006 (Build and maintain relationships at the workplace)	25	6
(ix)	SSC/N9010 (Convince others to take appropriate action in different situations)	25	6
	SSC/N9012 (Manage and collaborate with stakeholders for project success)		
	Total	374	

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SECTION 1 ASSESSMENT

21	Body/Bodies which will carry out assessment:
	SSC NASSCOM will carry out the assessment along with the assessment
	partners.
22	How will RPL assessment be managed and who will carry it out?
	RPL assessment will be online, objective evaluation in a highly
	secure and proctored environment.
	RPL assessments will be the same as our normal assessments.
	All procedures followed will be similar to the normal assessment
	methodology.
	 Issuance of the qualification will be through the centralise SDMS (NSDC).
	Quality assurance – By equating performance amongst the multiple
	affiliated assessment provider (AAP) and periodic analytical review
	and sensitivity analysis for the reliability and validity of all aspects of
	assessments.
23	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.
	SSC NASSCOM carries out online assessments through very robust
	platforms and proctoring methodology.
	Conduct of assessment are through trained and certified proctors
	under the assessment agency, partnering with SSC NASSCOM
	AAP affiliated to SSC NASSCOM come with strong industry
	references and long experience and analytical ability in assessment
	methodologies.
	Periodic workshops are held with the vendors to bring them to a
	common understanding of the job role, its NSQF level, difficulty level
	as well as format and sample of assessment items.
	 Internal moderations further ensure the validity and reliability of the
	assessments and consistency of difficulty levels of the test questions
	across AAPs.
	AAPs work with hirers on similar job roles, they use SMEs from their
	network to get industry relevant scenarios and assessment items
	aligned to the expected outcomes of the job role/QP.
	Curriculum and real time scenarios facilitate further understanding the
	scope of the QP with reference to process knowledge and skills.
	 In addition, we conduct workshops with AAPs w.r.t. beta testing,
	review of the assessment analytics, performance of the test platform,
	moderation of NSQF levels, deployment and invigilation patterns and

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infrastructure requirements including malpractice avoidance.

- Inferences from benchmarking and analytics patterns are taken into consideration in the development and revision of the assessment criteria and format of assessment items.
- Reliability and validity of assessment items is standardised among AAPs.
- Difficulty level of test items with reference to NSQF levels are ensured, so that the outcomes with reference to performance criteria of the constituent NOSs are in line with the NSQF level descriptors. This is achieved through the detailed test matrix design.

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 the qualification" in the Summary.

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

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24. Assessment evidences

Title of Component:

<u>Job Role</u> <u>loT – Network Specialist</u>

Qualification Pack SSC/Q8208 **Sector Skill Council** IT-ITeS

Guidelines for Assessment:

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
- 2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
- 3. 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 centre (as per assessment criteria below).
- 5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on this criterion.
- 6. To pass a QP, a trainee should score an average of 70% across generic NOS' and a minimum of 70% for each technical NOS.
- 7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

Title of NOS/Unit/Component:

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
1. SSC/N8227 Design network architecture	PC1. Evaluate requirements of the IoT network		10	3	7
for end-to- end IoT solutions	PC2. Identify the devices and systems to be connected by the IoT network	100	10	3	7
	PC3. Identify appropriate technology, devices, and deployment model to best meet the overall needs of		10	3	7

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	the IoT network				
	PC4. Design wireless/wired network nodes while taking into consideration the varieties of IoT Clients, Edge devices, Cloud Service/IoT Broker, and other networking devices		10	3	7
	PC5. Apply appropriate wired/wireless connectivity protocols for device-cloud communications (this many include protocols such as 5G, Wi-Fi, GSM, GPRS and Satellite)		10	3	7
C	PC6. Evaluate impacts of IoT network on the environment and on human health		15	5	10
	PC7. Build interoperable networks where end-to-end communication is possible across diverse components		5	1.5	3.5
	PC8. Ensure network supports bulk configuration functionalities across		5	1.5	3.5

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	multiple solution components				
	PC9. Design fallback mechanisms in case of network disruptions and outages		10	3	7
	PC10. Address network redundancy considerations		5	1.5	3.5
	PC11. Evaluate regulatory aspects of building network such as permitted frequency bands		5	1.5	3.5
	PC12. Design and develop networking dashboards used for network monitoring		5	1.5	3.5
	Total		100	30	70
2. SSC/N8228 Design network architecture	PC1. Ensure network is built in line with coverage requirements		10	3	7
considering capacity, reliability and security requirements	PC2. Ensure network is built in line with capacity requirements	100	10	3	7
	PC3. Ensure high availability of network		10	3	7
	PC4. Ensure scalability of the network to accommodate additional devices		10	3	7

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC5. Ensure network compatibility where low-powered devices are in use		5	1.5	3.5
	PC6. Evaluate power consumption patterns while building network		10	3	7
	PC7. Ensure that network offers reliable connectivity		10	3	7
	PC8. Ensure physical security of the network		5	1.5	3.5
	PC9. Protect the network from unauthorized access or malicious intent	70X	5	1.5	3.5
	PC10. Ensure only authorized devices should be able to connect to the network		10	3	7
47.	PC11. Manage the provisioning and connectivity of devices		5	1.5	3.5
	PC12. Plan physical placement of network components		5	1.5	3.5
	PC13. Apply policies on appropriate network devices to enable communications		5	1.5	3.5

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	Total		100	30	70
3. SSC/N8229 Maintain, manage,	PC1. Perform on-site surveys and tests on the IoT network		10	3	7
monitor and troubleshoot loT network	PC2. Detect sources of network interference		10	3	7
	PC3. Eliminate the impact of network interference		10	3	7
	PC4. Identify areas of dense users		10	3	7
	PC5. Continuously monitor bandwidth consumption of the loT network	100	5	1.5	3.5
	PC6. Identify applications which consume high bandwidth		5	1.5	3.5
C	PC7. Identify methods to minimize bandwidth consumption		5	1.5	3.5
4	PC8. Collect network usage and traffic statistics		5	1.5	3.5
	PC9. Monitor system logs of the IoT network		10	3	7
	PC10. Diagnose and resolve network configuration and connectivity issues		10	3	7

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC11. Identify network blind spots		10	3	7
	PC12. Perform detailed troubleshooting and analysis of IoT networks and endpoints		10	3	7
	Total		100	30	70
4. SSC/N8238 Create technical documents and manuals	PC1.Identify the purpose and the scope of the activity for which technical documentation is to		O		
	PC2.Obtain information for the technical document from relevant sources and stakeholders	6	15	4.5	14
C	PC3.Draft technical document ensuring that content is concise, complete and easy to consume	100	15	4.5	10.5
1	PC4.Review technical document content with relevant stakeholders and document owners		10	3	7
	PC5.Ensure that technical document is formatted and designed as per specifications		10	3	7

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC6.Transfer technical document to relevant stakeholders for sign- off and publishing		10	3	7
	PC7.Continuously review and update technical document		20	6	14 70
5. SSC/N9005	Total PC1. obtain advice		100	30	/0
Develop your knowledge, skills and competence	and guidance from appropriate people to develop your knowledge, skills and competence		10	0	10
	PC2. identify accurately the knowledge and skills you need for your job role		10	0	10
C	PC3. identify accurately your current level of knowledge, skills and competence and any learning and development needs	100	20	10	10
	PC4. agree with appropriate people a plan of learning and development activities to address your learning needs		10	0	10
	PC5. undertake learning and development activities in line with		20	10	10

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	your plan				
	PC6. apply your new knowledge and skills in the workplace, under supervision		10	0	10
	PC7. obtain feedback from appropriate people on your knowledge and skills and how effectively you apply them		10	0	10
	PC8. review your knowledge, skills and competence regularly and take appropriate action		10	0	10
	Total		100	20	80
6. SSC/N9006 Build and maintain relationships at the	PC1. build rapport with appropriate people at the workplace		1	0.3	0.7
workplace	PC2. develop new professional relationships		1	0.3	0.7
4	PC3. build alliances to establish mutually beneficial working arrangements	100	1	0.3	0.7
	PC4. foster an environment where others feel respected		5	1.5	3.5
	PC5. identify and engage a diverse range of influential contacts		5	1.5	3.5

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC6. obtain guidance from appropriate people, where necessary		1	0.3	0.7
	PC7. attentively listen to ideas and give constructive feedback		10	3	7
	PC8. promptly resolve conflicts between team members		5	1.5	3.5
	PC9. work with colleagues to deliver shared goals		1	0.3	0.7
	PC10. recognize the contributions made by your colleagues		5	1.5	3.5
	Total		100	30	70
	PC1. gather needs of concerned people		10	0	10
7. SSC/N9010 Convince others to take appropriate action in different situations	PC2. adapt arguments to consider diverse needs		15	0	15
	PC3. use small wins as milestones to gain support for ideas	100	25	10	15
	PC4. persuade with the help of concrete examples or evidences		25	10	15
	PC5. take defined steps to reach a consensus on the		25	10	15

Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	course of action				
	Total		100	30	70
	PC1. Identify the larger business and organizational context behind the requirements of the stakeholder		10	3	7
	PC2. Manage fluctuating stakeholder priorities and expectations		5	1.5	3.5
8. SSC/N9012	PC3. Consult stakeholders early in critical organisation-wide decisions	96	10	3	7
Manage and collaborate with stakeholders for project success	PC4. Use formal communication methods to collaborate with stakeholders (such as meetings, conference calls, emails etc.)	100	5	1.5	3.5
4	PC5. Keep stakeholders updated on changes in project requirements		10	3	7
	PC6. Define the frequency of communication with all the stakeholders		10	3	7
	PC7. Use suitable tools to represent numbers and pictures		10	3	7

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Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	to present details				
	PC8. Respond to requests in a timely and accurate manner		10	3	7
	PC9. Take feedbacks from stakeholders regularly		5	1.5	3.5
	PC10. Continuously improve work deliverables/service based on stakeholder feedback		15	5	10
	PC11. Plan deliverables based on stakeholder needs	.0	10	3	7
	Total		100	30	70

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome

Means of assessment 1

Proctored online assessments (LAN and Web based), carried out using a variety of question formats applicable for linear / adaptive methodologies; performance criteria being assessed via situation judgement tests, simulations, code writing, psychometrics and multiple-choice questions etc.

Means of assessment 2 NA

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Pass/Fail

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- 4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below).
- 5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on this criterion.
- 6. To pass a QP, a trainee should score an average of 70% across generic NOS' and a minimum of 70% for each technical NOS.
- 7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

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SECTION 2

25. EVIDENCE OF LEVEL

Title/Name of qualification/component: IoT – Network Specialist Level: 7			7
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Process	Requires a command of wide-ranging specialised theoretical and practical skills, involving variable routine and nonroutine contexts. • Identify appropriate technology, devices, and deployment model to best meet the overall needs of the IoT network • Design fallback mechanisms in case of network disruptions and outages • Evaluate power consumption patterns while building network • Evaluate coverage, capacity and availability of the network while designing it	The individual in this role needs to design networks and network dashboards while taking various considerations, regulations and interoperability requirements into account. To perform his/her role effectively, the individual requires a vast understanding of appropriate technology, devices, and deployment models to best meet the overall needs of the IoT network.	7
Professional knowledge	 Wide-ranging factual and theoretical knowledge in broad contexts within a field of work or study. Working knowledge of Linux/UNIX system infrastructure. Basic working knowledge of scripting 	The individual in the role must have a vast amount of knowledge across organizational policies, procedures and guidelines which relate to designing and maintaining networks. Since this is a role that requires the application of knowledge across different changing	7

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Title/Name of	f qualification/component: IoT – Network Speci	alist Level: 7	7
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	 languages and configuration files. Must be able to work independently. Knowledge of connectivity protocols for device-cloud communications (this many include protocols such as 5G, Wi-Fi, GSM, GPRS and Satellite) Knowledge of wired/wireless connectivity protocols for device-device or device-gateway communications (this may include protocols such as NFC, NB-IoT, Bluetooth/BLE, ZigBee, Mesh and Lora) Knowledge of network management dashboards and applications (such as HP Open View) Knowledge of network topologies, wired and wireless technologies, fibre optics, etc. 	scenarios, deep and vast knowledge is a necessity.	
Professional skill	 Wide range of cognitive and practical skills required to generate solutions to specific problems in a field of work of study. Build interoperable networks Build secure networks Ensure network supports bulk configuration functionalities across multiple solution 	The role demands a skillset that allows the individual to create network architecture considering capacity, reliability and security requirements. The individual needs to have prior experience in a related field and must have the analytical ability to put these skills in practice.	7

Title/Name of qualification/component: IoT – Network Specialist Level: 7			7
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	components Protect the network from unauthorized access or malicious intent Perform network deployment activities		
Core skill	Good logical and mathematical skill understanding of social political and natural environment and organising information, communication and presentation skill.	The individual should possess in depth knowledge of the tools required to use network capacity, coverage and reliability, network security and network deployment. Apart from the ability to use these tools, the individual needs to have a clear picture of the appropriate	
	Knowledge of regulatory aspects of building network such as permitted frequency bands	integrations that need to be achieved. To do so, he/she must have a strong understanding of different business and technological trends.	7
	 Knowledge of impacts of network on the environment and on human health Up to date knowledge of internal and 		
2	 external network regulations Organizational policies, procedures and guidelines which relate to designing and maintaining networks 		

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NSQF	Key requirements of the job role	How the job role relates to the NSQF level	NSQF
Domain		descriptors	Level
Responsibility	 Full responsibility for output of group and development. Make decisions on suitable courses Pass on relevant information to others Contribute to the quality of team working Apply balanced judgments to different situations Check your work is complete and free from errors Manage the teams that deploy and implement the IoT networks 	The role demands working in a team to identify appropriate technology, devices, and deployment model to best meet the overall needs of the IoT network. This may involve helping peers with their work from time to time and providing feedback and advice to help improve the quality of their work. Since this role is likely to have people reporting to it, the individual performing this role is supposed to take responsibility for the output and the development of the entire team.	7

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SECTION 3

EVIDENCE OF NEED

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?

As the number of devices connected to the internet increases, there is going to be a rapid increase of Specialists who can design network architectures and maintain and monitor them. They must be able to connect machines to each other and to the control systems that will oversee them. They must have up to date knowledge on WANs, edge networking, fog computing, next-gen 5G networking technologies, Wi-Fi, and low-power LAN protocols used in IoT devices.

https://www.networkworld.com/article/3199886/top-5-skills-needed-for-the-industrial-iot.html?page=4

There is a need for professionals who will realize that the challenges created by connecting systems and machines were not designed keeping standard networks in mind. Networks required by IoT solutions must move information around efficiently with as little latency as possible. Design considerations to be made while developing IoT networks are different from those made while developing conventional networks. For e.g., IoT networks would have to be interoperable, highly scalable, take physical security into consideration, etc. All this point to the need for Network Specialists who are specialized specifically in the IoT domain.

https://www.networkworld.com/article/3201042/network-engineering-is-key-to-meeting-iot-expectations.html

27 Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences

In place. MeitY has approved all the 9 QPs w.r.t. Internet of Things. Currently, there are no regulations on IoT by the government or any other industrial body. However, NASSCOM is working with NITI Aayog to build national policies.

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

Cleared by QRC at NSDC. There is only no other qualification in the NQR with respect to the Internet of Things, which is – 'IoT – Network Specialist.' This is a specific role that is responsible for building and maintain IoT networks.

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

- Monitoring and review of the qualifications is a project executed every two years.
- While adoption by industry and academia is one good indicator for the usefulness of a qualification pack, we adopt multiple approaches for periodic review and maintenance of the qualifications.
 - 1. Sub-sector wise Industry council, headed by council chair is a formal part of our governing structure. The council participates and steers the qualifications creation and upkeep. This council is a body elected by over 1800 member companies of NASSCOM.
 - 2. Special interest groups are formed for a more focused and detailed review of the qualifications in the light of emerging knowledge and skill areas.
 - 3. Events and workshops are conducted periodically to validate, monitor and review the qualification.
 - 4. As a part of due diligence process for affiliating Training providers, we do ask them for validation from their hirers thus covering even medium, small and micro segment of the hiring companies.
 - 5. Any institution / individual is welcome to send feedback, which is recorded and considered during next review cycle.

The above data is used to update the Qualification and this revision is published annually. Nonetheless, if a major feedback is received prior to the planned review period, the change is considered in consultation with the industry council.

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

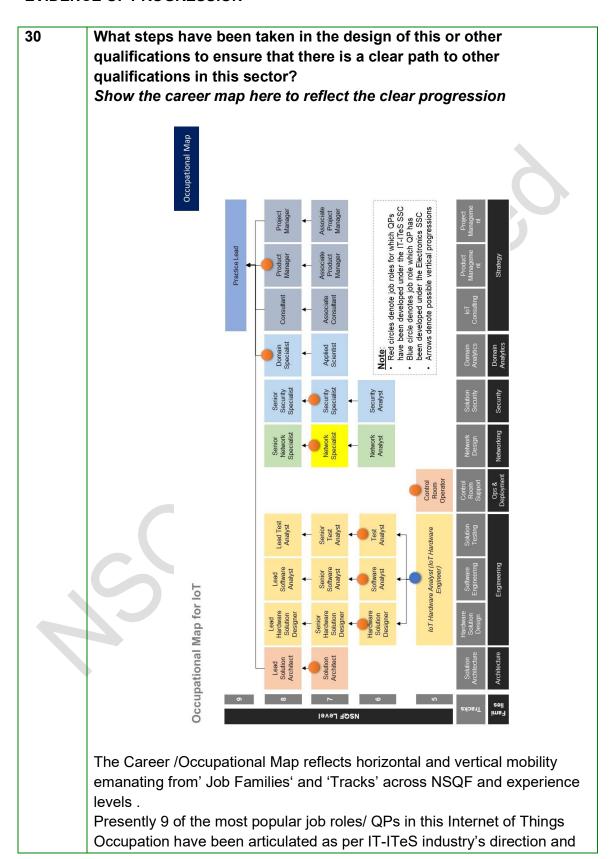
Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

NASSCOM Talent Demand and Supply Report – Internet of Things



SECTION 4

EVIDENCE OF PROGRESSION



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aspirations.

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.