

QUALIFICATION FILE – Standalone NOS

Foundations of Cloud Computing

☒ Horizontal/Generic ☒ Vertical/Specialization

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

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

NCrF/NSQF Level: 4.5

Submitted By:

IT-ITeS Sector Skills Council NASSCOM (SSC NASSCOM)

Plot No. – 7, 8, 9 & 10

Sector – 126, Noida, Uttar Pradesh - 201303

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Section 1: Basic Details

1.	NOS	Foundations of Cloud Computing																
2.	Sector/s	IT/ITeS																
3.	Type of Qualification ☒ New ☐ Revised	NQR Code & version of the existing /previous qualification:	Qualification Name of the existing/previous version: <i>Foundation of Cloud Computing</i>															
4.	National Qualification Register (NQR) Code & Version <i>(Will be issued after NSQC approval.)</i>	NG-4.5-IT-03785-2025-V1-NASSCOM & V1	5. NCrF/NSQF Level: 4.5															
6.	Brief Description of the Standalone NOS	This NOS describes the fundamentals of cloud computing.																
7.	Eligibility Criteria for Entry for a 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>Relevant Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Pursuing 1st Year of 3Y/4Y UG Program in STEM</td> <td>-</td> </tr> <tr> <td>2</td> <td>Completed 1st year of 3Y/4Y UG Program in STEM</td> <td>-</td> </tr> <tr> <td>3</td> <td>Passed Class 12th or equivalent in STEM</td> <td>1.5 Years of relevant experience (including work, internship, and apprenticeship) in Cloud Computing</td> </tr> <tr> <td>4</td> <td>Previous relevant qualification of NSQF Level 4</td> <td>1.5 Years of relevant experience (including work, internship, and apprenticeship) in Cloud Computing</td> </tr> </tbody> </table> b. Age: NA		S.No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	Pursuing 1st Year of 3Y/4Y UG Program in STEM	-	2	Completed 1st year of 3Y/4Y UG Program in STEM	-	3	Passed Class 12th or equivalent in STEM	1.5 Years of relevant experience (including work, internship, and apprenticeship) in Cloud Computing	4	Previous relevant qualification of NSQF Level 4	1.5 Years of relevant experience (including work, internship, and apprenticeship) in Cloud Computing
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8.	Credits Assigned to this NOS-Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	1.5 Credits	9. Common Cost Norm Category (I/II/III) <i>(wherever applicable): II</i>															
10.	Any Licensing Requirements for Undertaking Training on This Qualification <i>(wherever applicable)</i>	NA																

11.	Training Duration by Modes of Training Delivery (<i>Specify Total Duration as per selected training delivery modes and as per requirement of the qualification</i>)	☐ Offline Only ☐ Online Only ☒ Blended <table border="1" data-bbox="1025 256 1912 405"> <thead> <tr> <th>Training Delivery Mode</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>30</td> <td>15</td> <td>00</td> <td>45</td> </tr> <tr> <td>Online</td> <td>30</td> <td>15</td> <td>00</td> <td>45</td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)	Training Delivery Mode	Theory (Hours)	Practical (Hours)	OJT (Hours)	Total (Hours)	Classroom (offline)	30	15	00	45	Online	30	15	00	45
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12.	Assessment Criteria	<table border="1" data-bbox="1025 564 1984 676"> <thead> <tr> <th>Theory (Marks)</th> <th>Practical (Marks)</th> <th>Project (Marks)</th> <th>Viva (Marks)</th> <th>Total (Marks)</th> <th>Passing %age</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>70</td> <td>-</td> <td>-</td> <td>100</td> <td>50%</td> </tr> </tbody> </table>	Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age	30	70	-	-	100	50%			
Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age												
30	70	-	-	100	50%												
13.	Is the NOS Amenable to Persons with Disability	☒ Yes ☐ No If “Yes”, specify applicable type of Disability: Visual, Hearing or Speech impairment, Locomotor Disability															
14.	Progression Path After Attaining the Qualification, wherever applicable (<i>Please show Professional and Academic progression</i>)	After completing this program, participants can take up entry-level roles in cloud Computing.															
15.	How will participation of women be encouraged?	The Program is gender-neutral, although organizations are keeping a few seats to increase women's participation and encourage female candidates.															
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	<i>Once approved, the qualification will be available in Hindi or other Indian Languages.</i>															
17.	Is similar NOS available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:															
18.	Name and Contact Details Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Namrata Kapur Email: Standards@nasscom.in Contact No.: 0120-4990111 Website: https://nasscom.in															

19.	Final Approval Date by NSQC: 18/02/2025	20. Validity Duration:36 Months	21. Next Review Date: 18/02/2025
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Section 2: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate (Engineering/ Technology/ Computer Science) Industry & training experience: 2 years of industry experience in Cloud Computing. The industry experience would include work, internship, and apprenticeships undertaken after regular graduation. Certification: "Trainer" mapped to the Qualification Pack "MEP/Q2601" Minimum accepted score is 80% aggregate
2.	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate (Engineering/ Technology/ Computer Science) Industry & training experience: 4 years of industry experience in Cloud Computing. The full-time experience would include work, internship, and apprenticeship undertaken after regular graduation. Certification: "Master Trainer" mapped to the Qualification Pack "MEP/Q2602" Minimum accepted score is 90% aggregate.
3.	Tools and Equipment Required for the Training	☒ Yes ☐ No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised NOS, details of Any Upskilling Required for Trainer	NA

Section 3: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate (Engineering/ Technology/ Computer Science) Industry & Training Experience: 2 years of industry experience in Cloud Computing. The full-time experience would include work, internship, and apprenticeship undertaken after regular graduation. Certification: "Assessor" mapped to the Qualification Pack "MEP/Q2701" Minimum accepted score is 80% aggregate.
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2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines), (wherever applicable)	Educational Qualification: Graduate (Engineering/ Technology/ Computer Science) Industry & Training Experience: 2 years of industry experience in Cloud Computing. The full-time experience would include work, internship, and apprenticeship undertaken after regular graduation. Certification: "Assessor" mapped to the Qualification Pack "MEP/Q2701" Minimum accepted score is 80% aggregate.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Educational Qualification: Graduate (Engineering/ Technology/ Computer Science) Industry & Training Experience: 4 years of industry experience in Cloud Computing. The full-time experience would include work, internship, and apprenticeship undertaken after regular graduation. Certification: "Lead Assessor" mapped to the Qualification Pack "MEP/Q2702" Minimum accepted score is 90% aggregate.
4.	Assessment Mode (Specify the assessment mode)	The assessment will consist of a blend of hands-on practical evaluations and online proctored scenario-based multiple-choice questions ensuring a thorough evaluation of the individual's proficiency in learning outcomes, practical understanding, and real-world application of concepts.
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 4: Evidence of the Need for Standalone NOS

Provide Annexure/Supporting documents name.

1.	Government /Industry initiatives/ requirement (Yes/No): Industry Initiative
2.	Number of Industry validations provided: 11
3.	Estimated number of people to be trained:500 There is a growing requirement of cloud computing knowledge across various industry domains and employees are willing to familiarize themselves with the concepts of cloud computing. According to a report from NASSCOM, Future Of Cloud And Its Economic Impact: Opportunity For India, Cloud has a potential to create 1 Million Jobs in 2026 (Source: https://nasscom.in/knowledge-center/publications/future-cloud-and-its-economic-impact-opportunity-india)

4.	Evidence of Concurrence/Consultation with Line/State Departments (In case of regulated sectors): (Yes/No): Applied If “No”, why:
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Section 5: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrF/NSQF level justification based on NCrF/NSQF descriptors <i>(Mandatory)</i>	Evidence of Level
2.	Annexure: List of tools and equipment relevant for NOS <i>(Mandatory, except in case of online course)</i>	Tools and Equipment (lab set-up)
3.	Annexure: Performance and Assessment Criteria <i>(Mandatory)</i>	Performance Criteria Details
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Assessment strategy
5.	Annexure: Blended Learning <i>(Mandatory, in case selected Mode of delivery is Blended Learning)</i>	NA
6.	Annexure: Acronym and Glossary <i>(Optional)</i>	Acronym and Glossary
7.	Annexure/Supporting Document: Standalone NOS- Performance Criteria Details Annexure/Document with PC-wise detailing as per NOS format (Mandatory- Public view)	Foundation of Cloud Computing
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	MC_Foundation of Cloud Computing

Annexure: 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	Document business processes and the major functionalities and specifications of the cloud applications. Processes involved in deployment of Cloud Computing platforms and services. Processes involved in managing security configuration of cloud applications. Remote configuration of networks on cloud using software-based systems Gather requirements for the development of applications from relevant stakeholders. Identification and preparation of workloads for migration Monitor and manage deployed application	The individual in this role must work in a constantly changing environment where he/she needs to maintain cloud computing systems while actively engaging with other stakeholders within the company to create streamlined operations. To perform his/her role and to collaborate with other stakeholders effectively, the individual requires an understanding of solution architecture in Cloud Computing and the potential of Cloud Computing in transforming businesses and customer use cases.	4.5
Professional and Technical Skills/ Expertise/ Professional Knowledge	Differences between traditional IT (Information Technology) and Cloud Computing technologies Different ways to deploy Cloud Computing platforms and services How to develop service-oriented architecture- based applications. Different types of solution architectures	The individual in the role must have a basic knowledge of the different aspects of technological trends which have led to widespread adoption of Cloud Computing. This knowledge across various disciplines must be accompanied by an overall understanding of each discipline to perform this role effectively.	4.5

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
	Different types of cloud storage Different types of network configurations on cloud		
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Basics of management and monitoring of cloud networks using network monitoring tools Security risks and threats associated with cloud platforms and services. Understanding and managing latency of data stored on cloud storage platforms. Knowledge of cloud network troubleshooting using network monitoring tools Basics of cloud monitoring and operations How to select appropriate tools and platforms for migrating workloads to the cloud	The role demands a skill set that allows the individual to monitor cloud networks. This requires a wide range of skills. The individual, therefore, needs to have a good understanding of cloud network technologies, network management, and network configuration	4.5
Broad Learning Outcomes/Core Skill	Build cloud monitoring and operations plan Understanding of storage classes and types of databases Basic knowledge of Virtual Private Cloud and its uses	The individual must apply his/her cloud monitoring skills along with a sound understanding of the larger business, technological and regulatory trends. This would enable him/her to build code across the stack and effectively in line with industry best practices.	4.5

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
	How to Maintain and secure data in transit and data at rest Understanding of cloud monitoring processes Identification and preparation of workloads for migration		
Responsibility	Development of knowledge, skills, and competences Build and maintain relationships with colleagues and other teams. Convince others to take appropriate action in different situations. Manage and collaborate with stakeholders for project success	The role demands to work in a team to empower a culture of safety, security, and compliance in all aspects of cloud activities and assist to deploy, monitor, audit, document, and maintain the life cycles of cloud products and services.	4.5

Annexure: Tools and Equipment (lab set-up)

List of Tools and Equipment

Batch Size:

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Openstack	Open-source platform for cloud computing that allows users to set up and manage cloud infrastructure.	Installed/Access to each PC/Laptop
2	Docker	Platform for developing, shipping, and running applications in containers	Installed/Access to each PC/Laptop
3	Openstack	Tool for cloud data storage	Installed/Access to each PC/Laptop
4	OpenVswitch	Tool for Cloud Network requirement and automation	Installed/Access to each PC/Laptop
5	Hashicorp	An open-source tool for securely accessing secrets such as API keys, passwords, and certificates, essential for cloud security practices.	Installed/Access to each PC/Laptop
6	Apache Nifi	An open-source tool to automate the flow of data between systems, useful for data migration to the cloud.	Installed/Access to each PC/Laptop
7	Prometheus	Open source cloud monitoring tool	Installed/Access to each PC/Laptop

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. PC/Laptop with internet
2. White Board
3. White Board Marker
4. Projector

Annexure: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile
1	Fujitsu	Amit Srivastava	Head of AI, Fujitsu Consulting India	-	8698132444	amitkumar.shrivastava@fujitsu.com	https://www.linkedin.com/in/amitkumar-shrivastava/
2	Accenture	Indrajeet	Business Transformation Manager	Accenture, Sholinganallur, Chennai - 600119 India	9937366768	indra.jeet@accenture.com	https://www.linkedin.com/in/indrajeet1988/
3	Mindshare (Inclusive Minds)	Pamindar Singh	Team Lead	-	8713901984	paminder.singh@themindshare.in	https://www.linkedin.com/in/paminder-singh-7990b8101/
4	Intellibren	Kailash PD	Director	Intellibren services LLP Unit 101,Oxford Towers,139 HAL OLD Airport Rd.Kodihalli Bengaluru-560008	6374700185	kailash@intellibren.com	-
5	Draup	Chandan Kumar	Principal Architect	64, Jyoti Nivas College Rd, Koramangala Industrial Layout, Koramangala, Bengaluru, Karnataka 560034	8290294286	chandankumar@draup.com	https://www.linkedin.com/in/algochan0310/
6	Data Switch	Thilak hariharasudhan A	Product Engineer	Data Switch,Chennai	6393798750	thilakhariharan@gmail.com	https://www.linkedin.com/in/thilak-hariharasudhan-43a89b269/
7	Forbes Advisor	Naveenkumar Janakiraman	Data Research Analyst	6th Floor, ITC Grand Chola, 24, Greaves Road, Chennai, Tamil Nadu	9976773109	naveenkumarj4997@gmail.com	https://www.linkedin.com/in/naveenkumar-janakiraman
8	IBM	Arpita Majumder	Tech Consultant	IBM DLF Park 1 New Town Kolkata West Bengal-700156	7894369677	Arpita.majumder@ibm.com	https://www.linkedin.com/in/arpita-majumder-85612a67/
9	Cloud strats	Pooja Gupta	VP Shared services	-	7506661890	pooja.gupta@cloudstrats.com	https://www.linkedin.com/in/poojagupta2893/?originalSubdomain=in
10	Kornferry	Ragul Kumar	Data analyst	Kornferry, 1st Floor, Prestige Nebula, National Informatics Centre, II, Infantry Rd, Bangalore, Karnataka,	9659964881	ragulblooper143@gmail.com	https://www.linkedin.com/in/ragul-kumar-b2297a171/
11	Wipro	Narendra Nande	Practice Director	-	9900086708	narendra.nande@wipro.com	https://www.linkedin.com/in/narendra-nande-84402a2/

Annexure: Training Details

Training Projections:

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2025	500	-	-
2026	500	-	-
2027	500	-	-

Annexure: 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 NOS	List Recommended Tools – for all Selected Components	Offline: Online Ratio
1	☐ Theory/ Lectures - Imparting theoretical and conceptual knowledge	NA	NA
2	☐ Imparting Soft Skills, Life Skills and Employability Skills /Mentorship to Learners	NA	NA
3	☐ Showing Practical Demonstrations to the learners	NA	NA
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	NA	NA
5	☐ Tutorials/ Assignments/ Drill/ Practice	NA	NA
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations	NA	NA
7	☐ On the Job Training (OJT)/ Project Work Internship/ Candidate Training	NA	NA

Annexure: Standalone NOS- Performance Criteria details

1. Description: This NOS describes the fundamentals of cloud computing.

2. Scope:

The scope covers the following:

- Cloud Computing fundamentals.

3. Elements and Performance Criteria

- PC1 Define Cloud Computing and its applications.
- PC2 Design a solution architecture for cloud applications and services.
- PC3 Manage and store data on cloud storage platforms.
- PC4 Set-up and manage networks for cloud applications and services.
- PC5 Ensure the security of cloud applications, data, and services.
- PC6 Transfer data, applications, and services to cloud platforms.
- PC7 Monitor the performance of systems deployed on the cloud.

4. Knowledge and Understanding (KU):

- KA1. Organizational policies and procedures for sharing data.
- KA2. Organizational policies and procedures for documentation
- KB1. Popular Cybersecurity Tools/Software/platforms and differences in their functionalities
- KB2. Basic Understanding of information technology.

5. Generic Skills (GS):

- GS1. Work independently and collaboratively
- GS2. Communicate with others in writing.
- GS3. Ability to understand business impact and disseminate relevant information to others.
- GS4. Check the work is complete and free from errors.
- GS5. Apply balanced judgments to different situations.

Annexure: Assessment Criteria

Detailed PC-wise assessment criteria and assessment marks for the NOS are as follows:

S. No.	Assessment Criteria for Performance Criteria	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC 1.	Define Cloud Computing and its applications	06	10	-	-
PC 2.	Design a solution architecture for cloud applications and services	04	10	-	-
PC 3.	Manage and store data on cloud storage platforms	04	10	-	-
PC 4.	Set-up and manage networks for cloud applications and services	04	10	-	-
PC 5.	Ensure security of cloud application, data and services	04	10	-	-
PC 6.	Transfer data, application and services to cloud platforms	04	10	-	-
PC7.	Monitor the performance of systems deployed on cloud	04	10	-	-
Total Marks		30	70	-	-

Annexure: Assessment Strategy

Assessment Process Overview**Batch Creation & Assessment Request:**

Training Providers (TP) or Training Centers (TC), including any other authorized partner of Ministry/ Department create batches / push batches on the SIDH portal. Assessment requests are submitted through the SIDH portal or via email or other media as authorized from time to time. For NON-SIDH schemes, assessment requests are received electronically or through respective State Skill Mission portals. TP/TC initiates the assessment request through the InSDMS portal and processes the payment (where applicable).

Batch Alignment & Confirmation:

Upon payment confirmation, batches are assigned to the Assessment Agency based on factors like:

- Assessment readiness
- Availability of certified assessors for the specific job role
- Assessment capping to an assessment agency as prescribed from time to time for an AB An email communication / prescribed mode communication is sent to TP/TC for confirmation of the assessment date, with IT-ITeS SSC in the loop. Once confirmation is received, the Assessment Agency designates a TOA-certified assessor to conduct or facilitate the assessment.
- Batches are only formed when the Qualification is active.

Candidate Verification & Assessment Execution:

Candidate details are verified and documented at the beginning of the assessment by a certified assessor. A Quality Assurance (QA) mechanism is enforced, requiring an undertaking from the TC. Regular feedback is collected from TP/TC to ensure continuous improvement.

Evidence Collection & Validation:

Proctors or assessors capture date/time-stamped and geo-tagged photographs of the assessment location during the process. Attendance is also ensured offline. A PC-wise result analysis is conducted to refine assessment standards.

Monitoring & Compliance:

Batch monitoring follows established protocols, ensuring adherence to assessment guidelines. Sample based surprise visits are conducted at TC locations during both training and assessments to verify compliance. This structured approach ensures transparency, quality control, and validation throughout the assessment process.

Testing Environment:

- Check the Assessment location, date and time
- 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.

Assessment Quality Assurance levels/Framework:

IT-ITeS SSC nasscom is responsible for the development and periodic review of the question bank developed for a specific job role. We publish an openly accessible sample /model question paper on our website for all stakeholders. The quality of the Question Bank created by the assessment designer is validated by a Subject matter experts on the following parameters:

- Appropriateness of the Question Bank in terms of facts, data and information.
- Checks for grammar, spellings, scripting and formatting.
- The information provided should be specific enough to remove any ambiguity in answers/solutions to the question.
- Relevance – Assessing the topic well w.r.t. the job role.
- Check if the difficulty level of each question is as per the matrix.
- Check if the images used in the question are clear and relevant.
- All variables, symbols and abbreviations used must be declared.
- The correct answer option should be unique, and the options should not be overlapping

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register

NSQF	National Skills Qualifications Framework
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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.