QUALIFICATION FILE – Standalone NOS

Cloud application development

☒ Horizontal/Generic ☒ Vertical/Specialization

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

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

NCrF/NSQF Level: 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

<table>
<tr><td>1.</td><td>NOS</td><td colspan="2">Cloud application development</td></tr>
<tr><td>2.</td><td>Sector/s</td><td colspan="2">IT/ITeS</td></tr>
<tr><td>3.</td><td>Type of Qualification ☒ New ☐ Revised</td><td>NQR Code & version of the existing /previous qualification: (change to previous, once approved)</td><td>Qualification Name of the existing/previous version: (previous, once approved) Cloud Application development</td></tr>
<tr><td>4.</td><td>National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval.)</td><td>NG-05-IT-04696-2025-V1-NASSCOM & V1</td><td>5. NCrF/NSQF Level: 5</td></tr>
<tr><td>6.</td><td>Brief Description of the Standalone NOS</td><td colspan="2">This NOS is about developing and maintaining secure, resilient, and highly available cloud applications.</td></tr>
<tr><td>7.</td><td>Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee</td><td colspan="2">a. Entry Qualification & Relevant Experience:
<table>
<tr><th>S.No.</th><th>Academic/Skill Qualification (with Specialization - if applicable)</th><th>Relevant Experience (with Specialization - if applicable)</th></tr>
<tr><td>1</td><td>Completed UG Diploma** or equivalent</td><td>-</td></tr>
<tr><td>2</td><td>Completed 3Y Diploma** after 10th</td><td>1.5 Years of relevant experience (including work, internship, and apprenticeship) in Cloud Computing</td></tr>
<tr><td>3</td><td>Previous Relevant qualification of NSQF level 4.5</td><td>1.5 Years of relevant experience (including work, internship, and apprenticeship) in Cloud Computing</td></tr>
</table>
**PG/UG/Degree/Diploma in (Engg./Science)</td></tr>
<tr><td>8.</td><td>Credits Assigned to this NOS-Qualification, Subject to Assessment (as per National Credit Framework (NCrF))</td><td>3 Credits</td><td>9. Common Cost Norm Category (I/II/III) (wherever applicable): II</td></tr>
<tr><td>10.</td><td>Any Licensing Requirements for Undertaking Training on This Qualification (wherever applicable)</td><td colspan="2">NA</td></tr>
</table>

<table>
<tr><td>11.</td><td>Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</td><td>☐ Offline Only ☐ Online Only ☒ Blended
<table><tr><th>Training Delivery Mode</th><th>Theory (Hours)</th><th>Practical (Hours)</th><th>OJT (Hours)</th><th>Total (Hours)</th></tr><tr><td>Classroom (offline)</td><td>30</td><td>60</td><td>00</td><td rowspan="2">90</td></tr><tr><td>Online</td><td>30</td><td>60</td><td>00</td></tr></table>
(Refer Blended Learning Annexure for details)</td></tr>
<tr><td>12.</td><td>Assessment Criteria</td><td><table><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><tr><td>30</td><td>70</td><td>-</td><td>-</td><td>100</td><td>50%</td></tr></table></td></tr>
<tr><td>13.</td><td>Is the NOS Amenable to Persons with Disability</td><td>☒ Yes ☐ No If “Yes”, specify the applicable type of Disability: Visual, Hearing or Speech impairment, Locomotor Disability</td></tr>
<tr><td>14.</td><td>Progression Path After Attaining the Qualification, wherever applicable (Please show Professional and Academic progression)</td><td>NA</td></tr>
<tr><td>15.</td><td>How will participation of women be encouraged?</td><td>The Program is gender neutral, although organisations are keeping aside a few seats to increase women's participation to encourage female candidates.</td></tr>
<tr><td>16.</td><td>Other Indian languages in which the Qualification & Model Curriculum are being submitted</td><td>Once approved the qualification will be available in Hindi or other Indian Languages.</td></tr>
<tr><td>17.</td><td>Is similar NOS available on NQR-if yes, justification for this qualification</td><td>☐ Yes ☒ No URLs of similar Qualifications:</td></tr>
<tr><td>18.</td><td>Name and Contact Details Submitting / Awarding Body SPOC
(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</td><td>Name: Namrata Kapur
Email: standards@nasscom.in
Contact No.: 0120-4990111
Website: https://www.sscnasscom.com/</td></tr>
</table>

19.	Final Approval Date by NSQC: 07th October 2025	20. Validity Duration:36 Months	21. Next Review Date: 07th October 2028

Section 2: Training Related

1.	**Trainer's Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)*	**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)** *(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:** "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)** *(as per NCVET guidelines)*	**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.

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 *(details to be provided in Annexure-if it is different for Assessment)*

Section 4: Evidence of the Need for Standalone NOS

Provide Annexure/Supporting documents name.

1.	Government /Industry initiatives/ requirement (Yes/No): Yes, Industry Initiatives
2.	Number of Industry validations provided: 11
3.	Estimated number of people to be trained:5251 There is a growing requirement for 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 the 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

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 *(Mandatory)*	Evidence of Level
2.	**Annexure:** List of tools and equipment relevant for NOS *(Mandatory, except in case of online course)*	Tools and Equipment (lab set-up)
3.	**Annexure:** Performance and Assessment Criteria *(Mandatory)*	Performance Criteria Details

4.	**Annexure:** Assessment Strategy *(Mandatory)*	Assessment Strategy
5.	**Annexure:** Blended Learning *(Mandatory, in case selected Mode of delivery is Blended Learning)*	NA
6.	**Annexure:** Acronym and Glossary *(Optional)*	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)	-
8.	**Supporting Document:** Model Curriculum *(Mandatory – Public view)*	MC_Cloud Application Development

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	Processes involved in designing application architecture for cloud applications. Processes involved in managing security configuration of cloud applications	To perform his/her role and to collaborate with other stakeholders effectively, the individual requires a vast understanding of the processes used to build applications for cloud computing platforms. The individual needs to combine a knowledge of the processes along with a solid understanding of their contexts.	5
Professional and Technical Skills/ Expertise/ Professional Knowledge	Different types of cloud-native and cloud-first frameworks for creating cloud applications Different types of cloud deployment and cloud services models	The individual in the role must have a vast amount of knowledge across the different aspects of software development on various cloud computing platforms.	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
		This knowledge across various disciplines must be accompanied with an in-depth understanding of each discipline to perform this role effectively	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Knowledge of how to identify any maintainability, portability, and security requirements associated with the application. Knowledge of how to identify cloud native and cloud first frameworks and guidelines to design application architecture. Knowledge of how to define services (such as database transactions, messaging etc.) and re-usable APIs to be developed as part of the application architecture design. How to build applications that are resilient in the event of failure of underlying infrastructure. How toto ensure applications are horizontally scalable requirements associated with the application.	The role demands a skillset that allows the individual to build applications. This requires a wide range of skills. The individual therefore needs to be proficient at using several tools must have the analytical ability to use them effectively	5
Broad Learning Outcomes/Core Skill	How to develop functional and non-functional requirements for the defined scope of the application	The individual must apply his/her app development skills along with a sound understanding of the larger business,	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 design the application architecture How to develop and maintain secure, resilient and highly available applications Use DevOps tools for automated deployment and monitoring of software applications How to migrate cloud applications How to package software for secure and successful deployment on the cloud How to monitor and manage applications and the deployed systems	technological and regulatory trends. This would enable him/her to build code across the stack and effectively in line with industry best practices.	
Responsibility	How to develop your knowledge, skills and competence How to build and maintain relationships at the workplace How to convince others to take appropriate action in different situations How to manage and collaborate with stakeholders for project success	The role demands working in a team to create and maintain applications. 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.	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	PC/Laptop with internet		
2	Access to Cloud platforms		
3	Development and Deployment Tools		
4	Programming and Runtime Environments		
5	Database and Storage		
6	Monitoring and Management		
7	IDEs		

*Tools are open source

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. White Board
2. White Board Marker
3. 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	-	8698132444	amitkumar.shrivastava@fujitsu.com	https://www.linkedin.com/in/amitkumar-shrivastava/

			Consulting India				
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, Greams 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
2023-2024	551	110	55
2024-2025	2200	440	220
20205-2026	2500	500	250

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 is about building cloud applications that are secure, resilient to failure and are highly available to customers.

2. **Scope:**

The scope covers the following:

- Develop cloud applications, ensure application availability, and ensure application security.

3. **Elements and Performance Criteria**

PC1. Understand how application service dependencies (such as databases, message servers etc.) are deployed in a distributed environment.
PC2. Build cloud applications that are resilient in the event of failure of the underlying infrastructure.
PC3. Ensure the cloud applications are horizontally scalable.
PC4. Leverage micro-services-based architecture to develop secure APIs and services for cloud applications.
PC5. Ensure applications are operational, functional, and usable for completing or fulfilling a user's or business's requirements.
PC6. Manage security configurations of the cloud application and ensure compliance with regulatory standards.
PC7. Secure application data in transit by encrypting data or network connections whenever applicable.
PC8. Implement authentication and authorization mechanisms to ensure applications are accessible to authorized individuals.
PC9. Encrypt data to ensure the security of data at rest whenever applicable.

4. **Knowledge and Understanding (KU):**

KA1. Organizational policies, procedures and guidelines which relate to building and maintaining applications.
KA2. Organizational policies and procedures for sharing data.

KA3. Organizational policies and procedures for documenting and managing security configurations.
KA4. Who to involve while defining continuous integration and continuous delivery practices.
KA5. The range of standard templates and tools available and how to use them.
KB1. Different types of application dependencies and how to deploy them.
KB2. How to create application micro-services
KB3. How to develop a service-oriented architecture-based applications
KB4. How to develop secure APIs
KB5. How to scale applications horizontally
KB6. How to build resilient applications
KB7. Different types of container technologies
KB8. How to build applications from source code
KB9. How to test application for build failure
KA10. How to automate application build and testing process using appropriate tools
KB11. Different types of security standards and protocols
KB12. Different types of security authentication measures and tools
KB13. Different types of compliance/ regulatory standards
KB14. Different types of security tests
KB15. How to encrypt data

5. Generic Skills (GS):

SA1. Follow instructions, guidelines, procedures, rules and service level agreements.
SA2. Work independently and collaboratively.
SA3. Communicate with others in writing.
SA4. Analyze the impact of architectural and design decisions on business and organization.
SA5. Analyze the business impact and disseminate relevant information to others.
SA6. Check the work is complete and free from errors.
SA7. Apply balanced judgments to different situations.
SA8. Plan and organize your own work to achieve targets and deadlines.
SA9. Apply problem-solving approaches in different situations.
SA10. Seek clarification on problems from others.

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.	Understand how application service dependencies (such as databases, message servers, etc.) are deployed in a distributed environment	4	9	-	-
PC 2.	Build cloud applications that are resilient to infrastructure failures	4	9	-	-
PC 3.	Ensure the cloud applications are horizontally scalable	4	9	-	-
PC 4.	Leverage micro-services-based architecture to develop secure APIs and services for the cloud application	4	7	-	-
PC 5.	Ensure applications are operational, functional, and usable for fulfilling business or users' requirements	4	7	-	-
PC 6.	Manage security configurations of the cloud application and ensure compliance with regulatory standards	4	9	-	-
PC 7.	Secure application data in transit by encrypting data or network connections whenever applicable	2	6	-	-
PC 8.	Implement authentication and authorization mechanism to ensure cloud applications are accessible to authorized individuals	3	9	-	-
PC 9.	Encrypt data to ensure the security of data at rest whenever applicable	1	5	-	-
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

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 generally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities based on their primary economic function, product, service or technology.