

QUALIFICATION FILE – Standalone NOS

Foundations of Blockchain

☒ 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 Blockchain																
2.	Sector/s	IT/ITeS																
3.	Type of Qualification ☒ New ☐ Revised	NQR Code & version of the existing /previous qualification: NG-4.5-IT-03789-2025-V1-NASSCOM & V1	Qualification Name of the existing/previous version: Foundations of Blockchain															
4.	National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval.)	NG-4.5-IT-03789-2025-V1-NASSCOM & V1	5. NCrF/NSQF Level: 4.5															
6.	Brief Description of the Standalone NOS	This NOS describes the fundamentals of blockchain																
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 STEM</td> <td>1.5 Years of relevant experience (including work, internship, and apprenticeship) in Blockchain</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 Blockchain</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 STEM	1.5 Years of relevant experience (including work, internship, and apprenticeship) in Blockchain	4	Previous relevant qualification of NSQF Level 4	1.5 Years of relevant experience (including work, internship, and apprenticeship) in Blockchain
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8.	Credits Assigned to this NOS-Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	1.5 Credit	9. Common Cost Norm Category (I/II/III) (wherever applicable): II																			
10.	Any Licensing Requirements for Undertaking Training on This Qualification (wherever applicable)	NA																				
11.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	☒ Offline Only ☒ Online Only ☐ Blended <table border="1"> <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>27</td> <td>18</td> <td>00</td> <td>45</td> </tr> <tr> <td>Online</td> <td>27</td> <td>18</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)	27	18	00	45	Online	27	18	00	45
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12.	Assessment Criteria	<table border="1"> <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%			
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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 (Please show Professional and Academic progression)	NA																				
15.	How will the participation of women be encouraged?	The Program is gender neutral, although to increase women's participation, organizations are keeping aside few seats to encourage female candidates.																				
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Once approved the qualification will be available in Hindi or other Indian Languages.																				

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 (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	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:18/02/2028

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 Blockchain. 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 Blockchain. 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 Blockchain. 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) <i>(as per NCVET guidelines), (wherever applicable)</i>	Educational Qualification: Graduate (Engineering/ Technology/ Computer Science) Industry & Training Experience: 2 years of industry experience in Blockchain. 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) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate (Engineering/ Technology/ Computer Science) Industry & Training Experience: 4 years of industry experience in Blockchain. 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 <i>(Specify the assessment mode)</i>	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 the Standalone NOS

Provide Annexure/Supporting documents name.

1.	Government /Industry initiatives/ requirement (Yes/No): Industry initiative
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2.	Number of Industry validations provided: 11 Validations
3.	Estimated number of people to be trained: 500
4.	Evidence of Concurrence/Consultation with Line/State Departments (In case of regulated sectors): (Yes/No): Applied If “No”, why:

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 the 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)	NOS_ Foundation of Blockchain
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	MC_ Foundation of Blockchain_V1

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	Outline the objective and requirements for the blockchain solution's architecture and apps. Use basic blockchain tools. Troubleshooting issues arising in the blockchain solution.	In learning the fundamentals of Blockchain, candidates learn the basic knowledge and skills that an individual must possess before they gain hands-on experience in Blockchain development and testing.	4.5
Professional and Technical Skills/ Expertise/ Professional Knowledge	Fundamentals of Blockchain Use cases of Blockchain How to identify functional and non-functional requirements of blockchain Fundamentals of Blockchain architecture How to perform basic blockchain operations and use blockchain tools	The qualification equips the learners with the conceptual knowledge of Blockchain Is and strategies.	4.5
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Understanding of types of blockchain Requirements gathering Basic blockchain operations	The role demands a skill set that allows the individual to use blockchain platforms/tools for basic operations, support and testing.	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
	Identifying suitable platform/tools for blockchain		
Broad Learning Outcomes/Core Skill	Basic functionality available in popular Blockchain network Platform/App development Reusability of modules Common exceptions/ errors Platform/App testing Development best practices	The individual must apply his/her Blockchain skills along with a sound understanding of business use cases that can be automated. This would enable him/her to better understand Blockchain concepts.	4.5
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 Blockchain	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	PC/Laptop	-	
2	Truffle	Development framework for building and testing Blockchain application	
3	Remix IDE	Browser-based IDE for writing, testing, and deploying smart contracts.	
4	Github	Version control and documentation	

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	Accenture	Srikant Chandana	Business transformation manager	Accenture, DLF, IT Park Chennai	91784 68967	srikanth.chandana@accenture.com	https://www.linkedin.com/in/srikanthchandana/
2	BBSSL	Sanjay	Senior software engineer	1292, 1st Main Rd, 1st Block, Kodichikknahalli, Seenappa Layout, Bommanahalli, Bengaluru, Karnataka	84381 75943	sanjayrameshbabu.97@gmail.com	https://www.linkedin.com/in/sanjay-rameshbabu
3	Wipro	Deepesh Gandhi	Head Blockchain Delivery Digital Transformation & Innovations at Wipro Limited	-	70660 37907	deepesh.gandhi@wipro.com	https://www.linkedin.com/in/deepesh-gandhi-733ab54/
4	Grootan technologies	Anuraga	Customer Success Executive	11th Floor, Prince Info City I, 286/1, Rajiv Gandhi Salai, Nehru Nagar, Perungudi, Chennai, Tamil Nadu 600096	95006 62718	anuragaprabakaran@gmail.com	https://www.linkedin.com/in/anuraga-prabakaran?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=ios_app
5	Quantrello Digital Pvt. Ltd	Ayon Hazra	Founder & CEO	Kolkata Biotech Park, EN 24, Sector V, Salt Lake City, Kolkata 700091, India	89105 60570	info@bwslabs.com	https://www.linkedin.com/in/ayonhazra/
6	Kornferry	Ragul	Data analyst	-	96599 64881	ragulblooper143@gmail.com	https://www.linkedin.com/in/ragul-kumar-b2297a171/
7	Skillsda	Kottaram Ramesh	Director- Engineering	-	95001 23029	ram@skillsda.com	https://www.linkedin.com/in/kottaram-v-ramesh/
8	Desicrew Solutions Pvt Ltd	Deepa Rasu	Senior Crewmate	-	93607 94643	deepadesicrew@gmail.com	https://www.linkedin.com/in/deepa-87b6ba216

9	Synergy Software Systems	Aravind Raj	Functional Consultant	-	+971 55578 2899	aravindrajjaya.chandran@gmail.com	https://www.linkedin.com/in/aravind-raj-17554071/
10	Forbes Advisor	Naveen kumar Janakiraman	Data Research Analyst	-	99767 73109	naveenkumari4997@gmail.com	https://www.linkedin.com/in/naveenkumar-janakiraman/
11	Delta Electronics India	Kabilan R D	Project Management	-	70108 11080	kabilanrdurai@outlook.com	https://www.linkedin.com/in/kabilan-r-d-b09856122

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	-	-

Data to be provided year-wise for next 3 years.

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		
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		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 Blockchain

2. Scope:

The scope covers the following:

- Blockchain Fundamentals
- Blockchain Architecture & Development

3. Elements and Performance Criteria

[Blockchain Fundamentals](#)

- PC1. Define Blockchain, evolution and types (such as public, private, federated, permission, permission-less)
- PC2. Understand the fundamentals of smart contracts, tokens, queries, and sign transactions.
- PC3. Recognize the importance of governance and regulations in the implementation of blockchain.
- PC4. Study the use cases of blockchain across various industries.

Blockchain Architecture & Development

- PC5. Develop a basic awareness of Blockchain architecture and its components, such as ledgers, blocks, and nodes.
- PC6. Understand the basic concepts of blockchain security and crypto economics.
- PC7. Understand the concept of sentry nodes and the importance of firewalls in architecture development.
- PC8. Explore functionalities provided in various blockchain tools & BaaS Services
- PC9. Build simple blockchain APIs.
- PC10. Perform basic querying of transactions, nodes, and blocks.
- PC11. Perform tests on complied blockchain programs to check for possible errors using tools such as Truffle.
- PC12. Describe the Interaction with networks (querying blocks, pushing transactions, etc.)

Knowledge and Understanding (KU):

- KA1. Organizational policies and procedures for sharing data.
- KA2. Organizational policies and procedures for documentation.
- KB1. Hands-on experience in programming (C++/Python/Java).
- KB2. Fundamentals of blockchain technology such as consensus algorithms, smart contracts, blockchain APIs and Dapps.

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.

GS6. Plan and organize the work to achieve targets and deadlines.

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 Blockchain, evolution and types (such as public, private, federated, permission-less)	3	2	-	-
PC 2.	Understand the fundamentals of smart contracts, tokens, queries, and sign transactions.	3	2	-	-
PC 3.	Recognize the importance of governance and regulations in the implementation of blockchain.	6	3	-	-
PC 4.	Study the use cases of blockchain across various industries	6	3	-	-
PC 5.	Develop a basic awareness of Blockchain architecture and its components, such as ledgers, blocks, and nodes.	1	7	-	-
PC 6.	Understand the basic concepts of blockchain security and crypto economics.	1	7	-	-
PC 7.	Understand the concept of sentry nodes and the importance of firewalls in architecture development.	2	8	-	-
PC 8.	Explore functionalities provided in various blockchain tools & BaaS Services	1	7	-	-
PC 9.	Build simple blockchain APIs	2	8	-	-
PC 10.	Perform basic querying of transactions, nodes, and blocks.	1	7	-	-
PC 11.	Perform tests on complied blockchain programs to check for possible errors using tools such as Truffle	2	8	-	-
PC 12.	Describe the Interaction with networks (querying blocks, pushing transactions, etc.)	2	8	-	-
Total Marks		30	70	-	-

Annexure: Assessment Strategy

Assessment System Overview

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
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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 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.