

QUALIFICATION FILE

Quality Check Technician - Ceramics

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

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

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

NCrF/NSQF Level: **NSQF Level 4**

Submitted By:

Handicrafts and Carpet Sector Skill Council-HCSSC

Tel number(s): 011-26139834

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Section1: Basic Details

1.	Qualification Name	Quality Check Technician - Ceramics	
2.	Sector/s	Handicrafts and Carpet Sector Skill Council	
3.	Type of Qualification ☐ New ☒ Revised ☐ Has Electives/Options	NQR Code & version of the existing /previous qualification: <i>(change to previous, once approved)</i> Previous NQR Code: QG-3.5-HC-01742-2023-V1.1-HCSSC Version of qualification: 2.0	Qualification Name of the existing version: <i>(previous, once approved)</i> Quality Check Technician (Ceramics)
4.	National Qualification Register (NQR) Code & Version <i>(Will be issued after NSQC approval)</i>	NQR Code: QG-04-HC-04015-2025-V2-HCSSC Version of qualification: 3.0	5. NCrf/NSQF Level: <i>NSQF Level 4</i>
6.	Award (Certificate/Diploma/ Advanced Diploma/Any Other) <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Certificate	
7.	Brief Description of the Qualification	The individual at the job receives and checks the product against the predefined quality parameters. Random samples received from various product lines are checked for conformity to the predefined quality parameters.	
8.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience	

		<table border="1"> <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>12th grade pass</td><td>1.5-year relevant experience</td></tr> <tr> <td>2</td><td>10th grade pass</td><td>3 years relevant experience</td></tr> <tr> <td>3</td><td>Previous relevant Qualification of NSQF Level 3.5</td><td>1.5-year relevant experience</td></tr> </table>						S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	12th grade pass	1.5-year relevant experience	2	10th grade pass	3 years relevant experience	3	Previous relevant Qualification of NSQF Level 3.5	1.5-year relevant experience					
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)																						
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2	10th grade pass	3 years relevant experience																						
3	Previous relevant Qualification of NSQF Level 3.5	1.5-year relevant experience																						
9.	Credits Assigned to this Qualification (as per National Credit Framework (NCrF))	16	10. Common Cost Norm Category (I/II/III) (wherever applicable): III																					
11.	Any Licensing Requirements for Undertaking Training on This Qualification (wherever applicable)	NA																						
12.	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 Modes</th><th>Theor y (Hours)</th><th>Practica l (Hours)</th><th>OJT Mandatory (Hours)</th><th>OJT Recomm ended (Hours)</th><th>Total (Hours)</th></tr> </thead> <tbody> <tr> <td>Classroom (offline)</td><td>180 (includi ng 40 hrs. of ES)</td><td>300 (includin g 20 hrs. ES)</td><td></td><td></td><td>480</td></tr> <tr> <td>Online</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>					Training Delivery Modes	Theor y (Hours)	Practica l (Hours)	OJT Mandatory (Hours)	OJT Recomm ended (Hours)	Total (Hours)	Classroom (offline)	180 (includi ng 40 hrs. of ES)	300 (includin g 20 hrs. ES)			480	Online					
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Online																								
		(Refer Blended Learning Annexure for details)																						
13.	Aligned to NCO/ISCO Code/s (if code is not available,	NCO-2015/7329.35																						

	<i>then mention the same)</i>	
14.	Progression Path After Attaining the Qualification (Please show Professional and Academic progression) (wherever applicable)	Horizontal Progression Floor Supervisor Ceramics Level 4 Vertical Progression Merchandiser Level 4.5
15.	Other Indian Languages in which the Qualification & Model Curriculum are being Submitted	Hindi
16.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:
17.	Is the Job Role Amenable to Persons with Disability	☒ Yes ☐ No If “Yes”, specify applicable type of Disability: applicable to all types of disability except vision Impairment, mental health conditions, intellectual disability or (limited to physical disability where hands are used).
18.	How participation of women will be encouraged?	Participants of women in the handicrafts and carpet sector can be encouraged by providing them skill development programs and creating accessible work opportunities for handicrafts products which is well known by the women of India.
19.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it), wherever applicable	☒ Yes ☐ No
20.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☒ Yes ☐ No Colleges ☒ Yes ☐ No
21.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Mr. Krishan Kumar Email: ceo@hcsc.in Contact No.: 011-26139834 Website: www.hcsc.in
22.	Final Approval Date by NSQC: 30/04/2025	23. Validity Duration: 3 years 24. Next Review Date: 30/04/2028

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

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

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

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/ NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Quality parameters for Raw Materials in Ceramics Manufacturing	HCS/N1007 NOS Version No. 1.0	Core	4	4	40:00	80:00	00:00	00:00	120:00	35	65	-	-	100	
2.	Quality Inspection and Problem Resolution in Ceramics	HCS/N1008 NOS Version No. 1.0	Core	4	4	40:00	80:00	00:00	00:00	120:00	35	65	-	-	100	
3.	Entrepreneurship Skills for Ceramics Quality Check Technician	HCS/N8520 NOS Version No. 1.0	Core	4	3	30:00	60:00	00:00	00:00	90:00	38	62	-	-	100	

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/ NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
4.	Coordinate with colleagues and work as a team	HCS/N9901 NOS Version 6.0	Non-core	4	1	10:00	20:00	NA	00:00	30:00	35	65	-	-	100	
5.	Maintain health, safety and security at workplace	HCS/N9913 NOS Version 1.0	Non-Core	4	1	10:00	20:00	NA	00:00	30:00	30	70	-	-	100	
6.	Maintain Personal Hygiene	HCS/N9903 NOS Version 3.0	Non-core	4	1	10:00	20:00	NA	00:00	30:00	30	70	-	-	100	
7.	Employability & Entrepreneurship Skills	DGT/VSQ/N0102: NOS Version No. 1.0	Non-Core	4	2	40:00	20:00	00:00	00:00	60:00	20	30	-	-	50	
Duration (in Hours) / Total Marks					16	180:0	300:	N	00:0	480:0	220	43	-	-	650	

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/ NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Ma n.	OJT-Rec.	Total	Th.	Pr.	Proj .	Viva	Total	Weightage (%) (if applicable)
						0	00	A	0	0		0				

Assessment - Minimum Qualifying Percentage

Please specify any one of the following:

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

Minimum Pass Percentage – NOS/Module-wise: 50 % (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	12 th grade pass with 2 years' experience in the relevant sector and 1 year of teaching experience
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Graduate with 3 years' experience in the relevant sector and 4 years of teaching experience
3.	Tools and Equipment Required for the Training	☒ Yes ☐ No (If "Yes", details to be provided in Annexure)

4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NA
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Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	6 months experience for ensuring that ceramic products meet established quality standards and specifications
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines) wherever applicable	6 months experience for ensuring that ceramic products meet established quality standards and specifications
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines) wherever applicable	6 months experience for ensuring that ceramic products meet established quality standards and specifications
4.	Assessment Mode (Specify the assessment mode)	Blended
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 5: Evidence of Need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes
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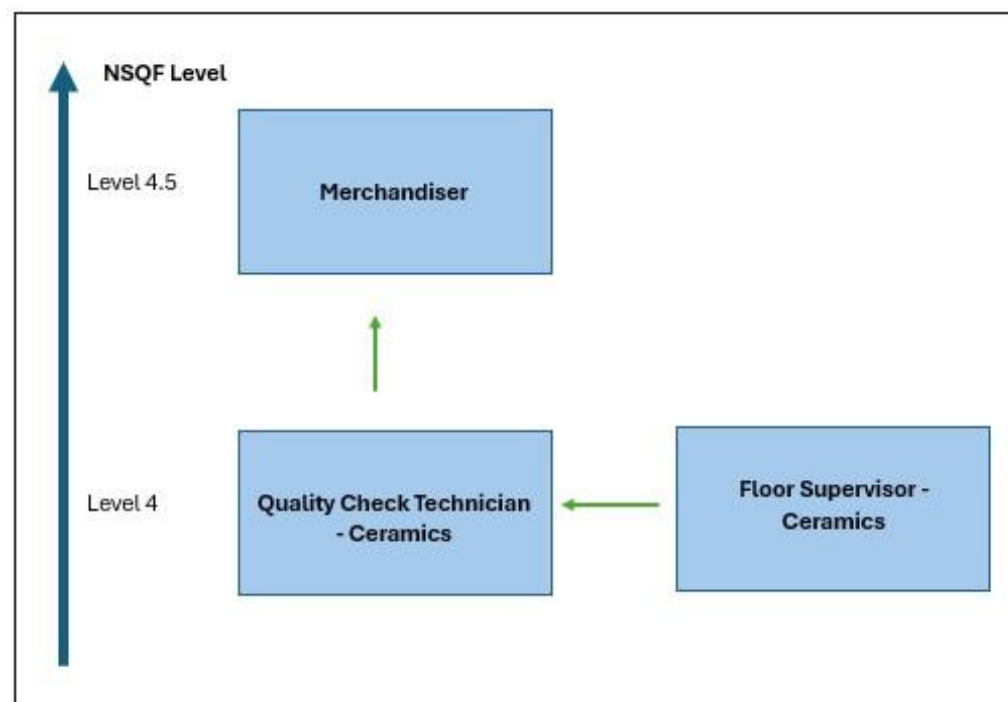
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 30
5.	Estimated nos. of persons to be trained and employed: 750 approx.
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments If “No”, why: Yes

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors (Mandatory)	Annexure 1
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Annexure 2
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Annexure 6
4.	Annexure: Assessment Strategy (Not Mandatory)	Annexure 7
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of delivery is Blended Learning)	Annexure 5
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple	The Multiple entry and exit criteria would help in fragmenting an entire program into smaller units with due acknowledgement being given to each unit of learning. The credit transfer mechanism will also enable a student to enter, exit and re-

	<i>Entry-Exit)</i>	enter the educational ecosystem both general and vocational at any point of time.
7.	Annexure: Acronym and Glossary (<i>Optional</i>)	Annexure 8
8.	Supporting Document: Model Curriculum (<i>Mandatory – Public view</i>)	Model Curriculum attached separately
9.	Supporting Document: Career Progression (<i>Optional - Public view</i>)	Career Progression/ Job Role Progression appended below
10.	Any other document you wish to submit:	



Annexure 1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	The incumbent works in the familiar and predictable routine of testing samples for defects and other parameters in ceramics manufacturing. The situation of clear choice (descriptor of level 4) is evident through the following examples • plan the QC check-in line with the schedule and stage of production • assess the samples for the QC • check the dimension and shape of the craft and compare with design specifications • check for cracks in ceramic products • perform QC on the targeted number per day This is not of level 4.5 which requires a clear choice of procedures, as here the procedure is standardized. Example: • complete all activities as per internal standards • receive the quality parameters from QC head • discuss the parameters with the QC team • clarify any doubts on the QC parameters with the QC head	This is at level 4, it requires a clear choice of procedures, as here the procedure is standardized by the direction of the supervisor. Example: • Know the quality standards • Inspection of Raw materials • Quality inspection during production • Inspection of final product • Problem identification and resolution • Documentation and reporting	4
Professional and Technical Skills/ Expertise/ Professional Knowledge	The incumbent has factual knowledge of the field of knowledge or study which is in this case includes quality testing parameters and procedures. Examples:	It is at level 4 as this level as outlined above requires factual knowledge of the field of study and not mere basic facts, processes, and principle	4

	• importance of QC • the QC techniques in the ceramics industry • equipment, appliances used in QC process and their operation • different product lines and associated QC parameters • various stages of production This is not level 4.5 as this level as outlined above requires factual knowledge of the field of study and not mere basic facts, process and principle knowledge of trade of employment	knowledge of trade of employment.	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Most of the work involves recall and demonstration of practical skill, is routine and repetitive, and in a narrow range of applications. Examples: • plan the QC check-in line with the schedule and stage of production • check for any other defined quality parameters • check the samples for overall fidelity to the model • replace the product samples in the associated batch • handle the samples carefully • use appropriate aids for the QC check The incumbent also uses appropriate rules and tools and quality concepts to complete their work. This is evident through • use appropriate aids for the QC check equipment, appliances used in QC process and their operation This is at level 4 as it is required cognitive skills and a range of methods for problem-solving. Not level 3 as there is independent work and not mere assisting, at the same time there are variables involved.	This is at level 4 as it is required cognitive skills and range of methods for problem solving which is for level 4.5. Not level 4 as there is independent work and not mere assisting, at the same time there are variables involved.	4

Broad Learning Outcomes/Core Skill	The incumbent needs language to communicate written or oral, with required clarity, to interact with various departments, supervisors, personnel and delivery teams, confirm requirements and communicate order and delivery terms. Also interact with other departments and prepare a range of routine documentation. Examples: • document the checklist of QP parameters and process to be followed • communicate with the QC head • know the precise manner of examining the products, explain the same to the team if required • fill the template with correct data and interpretation The incumbent also needs the skill of basic arithmetic and algebraic principles, for calculating various quantities and parameters, etc. For example: • compute the percentages of the quality parameters • interpret the results when required	Written and oral communication is required with clarity so it's level 4.	4
Responsibility	The incumbent works with responsibility for their work and learning, which is evident from the incumbent's deliverables, and also there is responsibility for the learning of others therefore this is at level 4. • move proactively in the production cycle looking for any quality-related issues • liaison with various internal teams on various quality issues • avoid overall production losses due to quality • discuss the parameters with the QC team	Responsible for own work and learning therefore at level 4.	4

	clarify any doubts on the QC parameters with the QC head		
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Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Calipers	Used for measuring dimensions and ensuring that ceramic products meet specified size requirements.	4 types
2	Micrometers	Precise measuring instruments for accurate measurement of thickness and dimensions	2 eqpt nos
3	Moisture Meters	used to measure the moisture content in ceramics, ensuring it falls within acceptable levels	3 eqpt nos
4	Hydrometers	Devices for measuring the specific gravity of glaze to ensure proper consistency	3 eqpt nos
5	Thermocouples	Temperature sensors used to monitor and control firing temperatures in kilns	2 eqpt nos
6	Inspection Gauges	Specific gauges designed to check critical dimensions and features of ceramic products	5 eqpt nos
7	Curing Chambers	Controlled environments for assessing the curing or drying process of ceramics.	2 eqpt nos
8	Computers and Software	Used for data analysis, documentation, and communication of quality control results	2 eqpt nos

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. White Board
2. Marker/Pen
3. Duster
4. First-aid
5. PPE Kit

Annexure 3: Industry Validations Summary

Sr. No.	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No.	E-mail ID	LinkedIn Profile (if available)
1	Mahamana Ceramic Development Organization	Dr. K.L. Sharma	CEO	34, Hazratpur, Agwal Crossing, Khurja-Aligarh Bypass, Khurja-203131(UP)	98100446600	mahamanaceramic@gmail.com	
2	Bidula Clay Studio	P.B. Bidula	Proprietor	Kizhakkeputhalatha HO, Kozikode-673303 (Kerala)	9400536408	Pbbidula999@gmail.com	
3	Mati Srijan	Mrs. Meenakshi Rajendra	Director	C-46, Street No.-15, Madhu Vihar Market, IP Extension, New Delhi-	9810148561	meenakshi251272@gmail.com	

				110092			
4	K.L .Mati kala Aangan	Lakhmi Narayan	Proprietor	Rahila Road, Chhavi Jhajjar-124103 (HR)	9817250041	klmatikalaangan@gmail.cim	
5	Pakhi Creation	Dr. Namita Mandal	Proprietor	MIG-302, Girnar hills Near Malhotra college, BDA road, Awadhpuri-462022, Bhopal (Madhya Pradesh)	9165014165	pakhicreations39@gmail.com	
6	MSME	BHATERI DEVI	Artisan	764,Chawani Mohala, Jhajjar-124103 (HR)	9991013251		
7	MSME	CHHAIL BIHARI PRAJA	Artisan	Chandra Nagar, Chhattarpur-471101 (MP)	9754536421		
8	MSME	DEV KARAN	Artisan	Chhawani, Jhajjar-124103 (HR)	9991013251		
9	MSME	DEVIDEEN PRAJAPATI	Artisan	152 Ward no.-6, Chandranagar, Chhattarpur-471101	9981316985		
10	MSME	Hira Bai Prajapati	Artisan	152 Ward No.-6, Chandra Nagar, Chhattarpur-471101 (MP)	9981321689		
11	MSME	Jeevanlal Prajapati	Artisan	71 W/NO. 19 Lalpur, Ramnagar, Chhattarpur-471625 (MP)	9770316143		

12	MSME	Kamlesh	Artisan	Raina Colony, Jhajjar-124103 (HR)	9812080797		
13	MSME	Krishan Kumar	Artisan	206, Jatiya Mohalla, Jhajjar-124103 (HR)	9416188169		
14	MSME	Lakshmi Narayan	Artisan	Chhavni Mohalla, Ward No.-14, Jhajjar, Harayana-124103	7404526806		
15	MSME	Maman Chand	Artisan	Chhawani, Jhajjar-124103 (HR)	7404066856		
16	MSME	Nikhil Paul	Artisan	Mata khali, Bardhaman West Bengal.	9957997969		
17	MSME	Parvati Prajapati	Artisan	Lalpur, Ramnagar, Chhattarpur-471625 (MP)	9893955029		
18	MSME	Poonam Prajapati	Artisan	Ward no.-3 Kharka, Rampur Chhattarpur-471101	7725094813		
19	MSME	Prakash	Artisan	Machhipur Khurja, Bulandshahar -203131 (UP)	NA		
20	MSME	Prem Chand	Artisan	Chhawani Mohalla, Jhajjar, Harayana-124103	7206504070		
21	MSME	Pushpa Prajapati	Artisan	Mahroad, Chandra Nagar, Chhattarpur-	7024030125		

				471101 (MP)			
22	MSME	Rajbir Singh	Artisan	Chhwani Mohalla, Jhajjar-124103 (HR)	8059178170		
23	MSME	Radha Prajapati	Artisan	Chandra Nagar, Chhattarpur-471101 (MP)	8959961640		
24	MSME	Ravindra Prajapati	Artisan	Mahal Road, Chandra Nagar, Chhattarpur- 471101	9752734083		
25	MSME	Raj Kumar Prajapati	Artisan	204 Ward No.-5, Dhamna, Chhattarpur- 471101 (MP)	9575873126		
26	MSME	Rekha	Artisan	Jhajjar-124103 (HR)	7404066856		
27	MSME	Roshini Devi	Artisan	Bhatti Gate, Jhajjar- 124103 (HR)	8059178170		
28	MSME	Sachin Kumar	Artisan	Machhipur Khurja, Bulandshahar -203131 (UP)	8126040944		
29	MSME	Shasikant prajapati	Artisan	W/NO.-3, Kharka, Rampur, Chhattarpur- 471101 (MP)	8959345778		
30	MSME	Sheela Devi	Artisan	Chhwani Mohalla, Jhajjar-124103 (HR)	7206504070		

31	MSME	Shiv Raj	Artisan	Ward No.-15, Raniya Colony, Jhajjar, Harayana-124103	9812080797		
32	MSME	Sunil Kumar	Artisan	Chhwani Mohalla, Jhajjar-124103 (HR)	9896774377		
33	MSME	Sunita	Artisan	Chhawani, Jhajjar-124103 (HR)	NA		
34	MSME	Suraj Bhan	Artisan	Ward no.-14, Mohalla Chavni, Jhajjar-124103 (HR)	9812440249		
35	MSME	Yadvendra Prajapati	Artisan	Mahal Road, Chandranagar, Chhattarpur-471101 (MP)	9752734083		

Annexure 4: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities

2023-24	750	Self-employment	Approx. 60%	Self-employment	N/A	N/A
2024-25	1000	Self-employment	Approx. 60%	Self-employment	N/A	N/A
2025-26	1250	Self-employment	Approx. 60%	Self-employment	N/A	N/A

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

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

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
3.0	2021-2022	-	-	-	Self-employed	More than 60%	More than 60%	More than 60%	Self-employed	NA	NA	NA	NA
3.0	2022-2023	-	-	-	Self-employed	More than 60%	More than 60%	More than 60%	Self-employed	NA	NA	NA	NA
3.0	2023-2024	200	173	173	Self-employed	More than 60%	More than 60%	More than 60%	Self-employed	NA	NA	NA	NA

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

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

1. Skill India Mission
2. National Handicrafts Development Program,
3. PM Vishwakarma,
4. Samarth
5. National Urban Livelihood Mission-NULM
6. Sankalp
7. One District One Product
8. National Rural Livelihood Mission-DDU-GKY
9. SFURTI-Ministry of Micro Small and Medium Enterprises.

Content availability for previous versions of qualifications:

☐ Participant Handbook ☐ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☒ Any Other: Qualification Pack/ MC/QF

Languages in which Content is available: English and Hindi

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

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

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

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☒ Theory/ Lectures - Imparting theoretical and conceptual knowledge	- Qualification/ Syllabus - Books/ e-books - Presentations	- Without use of appropriate tech tools 80% Offline and only upto 20% online otherwise. - Online Instructor led teaching, can be one-to-one or one to many or many-to-many: up to 80% to 100% online
2	☒ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	- Presentations - E-Content/ Curated digital content	Without use of appropriate tech tools, 80% Offline and only upto 20% online otherwise. 100% virtual while working in virtual teams / virtual collaboration
3	☒ Showing Practical Demonstrations to the learners	Projector, laptop various tools and equipment	For all skills, where a physical product is created, at least 50% shall be on practical demonstrations and site visits
4	☒ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	Projector, laptop various tools and equipment	100% offline without the use of any technology tools.

5	☒ Tutorials/ Assignments/ Drill/ Practice	Learning Management system	70% offline and upto 30% online where a physical product is created as part of skilling
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure 6: Detailed Assessment Criteria

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

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
HCS/N1007: Quality parameters for Raw Materials in Ceramics Manufacturing	Know the Quality Standards	4	9	-	-
	PC1. learn about international and national standards such as ISO 9001, ASTM, or BIS for ceramics manufacturing	1	3	-	-
	PC2. discuss the specific quality requirements for raw materials like clay, feldspar, quartz, and additives	2	3	-	-
	PC3. identify the raw materials meet the functional and aesthetic requirements of the final product (e.g., tiles, pottery, sanitary ware)	1	3	-	-
	Inspection of Raw Materials	15	27	-	-
	PC4. verify the source and specifications of raw	2	4	-	-

	materials using supplier documentation				
	PC5. check for consistency in color, texture, and form	1	3	-	-
	PC6. identify visible impurities like stones, debris, or organic matter	2	3	-	-
	PC7. measure using moisture meters to ensure optimal levels for processing	2	3	-	-
	PC8. conduct a plasticity test (e.g., rolling test) to evaluate workability	1	2	-	-
	PC9. use sieve analysis or laser diffraction to ensure uniformity in particle size distribution	2	3	-	-
	PC10. identify the presence of oxides and unwanted compounds through techniques like Xray Fluorescence (XRF)	2	3	-	-
	PC11. use a moisture meter to ensure raw materials like clay have optimal moisture levels for processing	1	3	-	-
	PC12. verify supplier certifications and conduct batch inspections to ensure consistency	2	3	-	-
	Quality Inspection during Production	16	29	-	-
	PC13. perform small-scale tests of the material mix before large-scale production	1	3	-	-
	PC14. adjust compositions if necessary to achieve desired properties	1	2	-	-
	PC15. check thermal stability and reactions at high temperatures	2	3	-	-
	PC16. measure shrinkage during drying and firing to prevent defects	1	2	-	-
	PC17. ensure the consistent mixing of raw materials	2	3	-	-
	PC18. detect cracks, warping, or inconsistent density in products during interim checks	1	2	-	-
	PC19. inspect for contamination introduced during	2	3	-	-

	processing				
	PC20. modify processing parameters like temperature, pressure, or timing based on realtime quality checks	2	4	-	-
	PC21. examine the microstructure for uniformity	1	2	-	-
	PC22. assess thermal properties of materials during firing	1	2	-	-
	PC23. evaluate the strength of intermediate products	2	3	-	-
	NOS Total	35	65	-	-
HCS/N1008: Quality Inspection and Problem Resolution in Ceramics	Inspection of Final Product	11	20	-	-
	PC1. technician performs detailed visual checks to detect surface defects like cracks, chips, discoloration, glaze imperfections, or inconsistencies in finish	1	3	-	-
	PC2. check that the product conforms to design specifications, including size, shape, and alignment	1	2	-	-
	PC3. use of tools like calipers, micrometers, or gauges to verify the dimensions of the product	2	3	-	-
	PC4. test the product for strength (resistance to breaking or chipping) and other functional properties (e.g., water resistance, fireproofing for specific types of ceramics)	1	2	-	-
	PC5. verify the weight of products to ensure that there are no significant variations in batch production that may indicate quality issues	2	3	-	-
	PC6. measure the residual moisture content in the product to avoid issues like cracking during the drying or firing stages	1	2	-	-
	PC7. identify the consistency of the ceramic's thickness to prevent uneven firing or brittleness	1	2	-	-
	PC8. check for any defects like streaks, bubbles, or	2	3	-	-

	uneven coverage in the glaze				
	Problem Identification and Resolution	9	18	-	-
	PC9. identify the nature of common ceramic defects, such as cracks, warping, pinholes, uneven glaze, or surface imperfections	2	3	-	-
	PC10. identify the root cause of these issues, whether they are due to raw material defects, improper firing, moisture imbalance, or handling errors	1	2	-	-
	PC11. categorize defects as cosmetic or functional to determine the severity of the issue and the appropriate response	1	2	-	-
	PC12. investigate the underlying cause of defects (e.g., insufficient drying time, improper kiln settings, poor raw material quality)	1	3	-	-
	PC13. provide guidance to production staff or operators on correct procedures to avoid recurring issues, like controlling moisture levels or ensuring correct glazing techniques	2	3	-	-
	PC14. implement corrective actions such as adjusting machine settings, modifying firing schedules, altering material ratios, or improving the production environment	1	2	-	-
	PC15. propose better techniques or materials to eliminate defects or enhance product quality	1	3	-	-
	Documentation and Reporting	15	27	-	-
	PC16. maintain detailed records of final product inspections, including the date, batch number, inspection outcomes, and any issues found	2	3	-	-
	PC17. record the tools and methods used during	1	2	-	-

	inspections, along with specific details of the products tested				
	PC18. document all identified defects, their causes (if determined), and the corrective actions taken. This log helps track recurring issues and analyze trends over time	1	2	-	-
	PC19. note whether products were reworked, rejected, or sent for further quality control checks	1	2	-	-
	PC20. prepare regular reports summarizing the inspection results, issues identified, and actions taken for management review	1	2	-	-
	PC21. report on overall production quality trends and making recommendations for process improvements based on data from inspections	2	3	-	-
	PC22. ensure that all products meet industryspecific standards and documenting compliance with these standards	1	2	-	-
	PC23. develop standard operating procedures (SOPs) based on lessons learned from previous issues	1	2	-	-
	PC24. prepare reports required for audits, certifications, or external inspections from regulatory bodies	1	2	-	-
	PC25. communicate with other departments, such as production and R&D, about recurring defects, the effectiveness of corrective actions, and potential product improvement	1	2	-	-
	PC26. document and report on customer feedback related to product quality for further analysis	2	3	-	-
	PC27. ensure that all inspection, defect, and resolution records are well-organized and accessible for future reference	1	2	-	-

	NOS Total	35	65	-	-
HCS/N8520 Entrepreneurship Skills for Ceramics Quality Check Technician	Understanding of Business and Market Needs	9	15	-	-
	PC1. discuss the role of a Quality Check Technician as both a quality control expert and an integral part of the business's entrepreneurial ecosystem	2	3	-	-
	PC2. aware of the broader market trends in ceramics, customer expectations, and the demand for specific ceramic products (e.g., tiles, sanitary ware, or decorative items)	1	3	-	-
	PC3. recognize that the quality of products directly impacts customer satisfaction and brand reputation	2	3	-	-
	PC4. identify how quality control aligns with customer preferences, and how defects or inconsistencies affect market competitiveness	2	3	-	-
	PC5. identify the ways to differentiate products by ensuring superior quality through meticulous inspection and problem resolution	2	3	-	-
	Problem Identification and Continuous Improvement	3	6	-	-
	PC6. identify and analyze problems within the production process (e.g., defects in raw materials, processing, or firing) and understand their potential impact on the business	2	3	-	-
	PC7. being proactive in adopting new technologies, equipment, or methods for inspection and quality assurance, which may lead to better efficiency or more accurate defect detection	1	3	-	-
	Cost Management and Resource Optimization	4	7	-	-
	PC8. identify the relationship between quality control and production costs. For instance, the cost of raw material wastage due to defects, the impact of	1	2	-	-

	rework, or the long-term effects of poor quality on brand reputation				
	PC9. manage resources effectively by controlling inspection costs, reducing waste, and optimizing labor and equipment use during the quality check processes	2	3	-	-
	PC10. identify areas where investment in better materials, equipment, or training could lead to long-term savings by reducing defects and improving product consistency	1	2	-	-
	Effective Communication and Stakeholder Management	6	9	-	-
	PC11. build strong communication channels with other departments such as production, procurement, R&D, and sales	2	3	-	-
	PC12. build and maintain the relationships with customers to understand their quality expectations and with suppliers to ensure raw materials meet the required standards	2	3	-	-
	PC13. prepare and present detailed quality reports, identify trends, and make suggestions for improvements	2	3	-	-
	Leadership and Teamwork	6	9	-	-
	PC14. take on leadership roles in overseeing specific aspects of quality control, ensuring team adherence to standards, and guiding others in proper inspection techniques	2	3	-	-
	PC15. ability to mentor less experienced technicians or production workers in quality control processes, helping to build a knowledgeable and skilled team	2	3	-	-
	PC16. encourage teamwork among quality assurance teams and other departments to meet	2	3	-	-

	common goals of maintaining high product standards and continuous improvement				
	Risk Management and Decision-Making	3	5	-	-
	PC17. identify the potential risks that poor-quality products pose to the company, including customer dissatisfaction, returns, damage to reputation, or increased production costs	1	2	-	-
	PC18. identify the preventative measures or strategies to minimize quality-related risks, such as implementing stricter quality checks, revising quality standards, or improving employee training	2	3	-	-
	Entrepreneurial Thinking in Quality Control Process	3	5	-	-
	PC19. encourage a sense of ownership and responsibility for product quality, similar to an entrepreneur managing their business	1	2	-	-
	PC20. find the creative solutions to quality challenges within the production environment	2	3	-	-
	Legal and Regulatory Awareness	4	6	-	-
	PC21. importance of complying with industry standards, safety regulations, and environmental laws in ceramics manufacturing	2	3	-	-
	PC22. aware of the legal implications of selling defective products and the importance of quality certifications (e.g., ISO 9001) to ensure market acceptance	2	3	-	-
	NOS Total	38	62	-	-
HCS/N9901: Coordinate with colleagues and work as a team	Interact with supervisor or superior	14	30	-	-
	PC1. comply with health, safety gender, and PwD (People with disability) related instructions applicable to the workplace	2	5	-	-
	PC2. actively participate in mock drills/ evacuation	2	5	-	-

	procedures; group discussions, training sensitization programs for gender, and PwD awareness organized at the workplace.				
	PC3. receive job orders and instructions from reporting supervisor and receive feedback on work standards.	2	5	-	-
	PC4. understand the work output requirements, targets, performance indicators and incentives.	2	5	-	-
	PC5. deliver quality work on time and report any anticipated reasons for delays and handover completed work to supervisor	3	5	-	-
	PC6. report on any grievances, production defects and any potential hazards.	3	5	-	-
	Work as a team by coordinating with colleagues within and outside the department and include inputs on PwD & Gender Sensitisation	6	10	-	-
	PC7. communicate maintenance and repair schedule proactively to the supervisor	3	5	-	-
	PC8. interact and clarify doubts on design, usage of materials & tools, quality & standards compliance, etc.	3	5	-	-
	Report and Document	15	25	-	-
	PC9. report in time for shortage or need of raw materials	3	5	-	-
	PC10. communicate with colleagues from within and other departments, clearly and effectively on all aspects to carry out the work among the team	3	5	-	-
	PC11. maintain the etiquette, use polite language, demonstrate responsible and disciplined behavior towards colleagues.	3	5	-	-
	PC12. put team over individual goals and multitask or share work where necessary supporting the	3	5	-	-

	colleagues.				
	PC13. document all the details accurately relating to ones role as required.	3	5	-	-
	Total Marks	35	65	-	-
HCS/N9913: Maintain health, safety and security at workplace	Comply with health, safety, and security requirements at work	30	70	-	-
	PC1. Comply with health and safety related instructions applicable to the workplace.	2	6	-	-
	PC2. Use and maintain personal protective equipment as per protocol.	2	6	-	-
	PC3. Carry out own activities in line with approved guidelines and procedures	2	6	-	-
	PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants.	2	6	-	-
	PC5. Follow environment management system related procedures	2	4	-	-
	PC6. Store materials and tools in line with manufactures and organizational requirements	2	3	-	-
	PC7. Safely handle and move waste and debris.	1	3	-	-
	PC8. Minimize health and safety risks to self and other due to own actions.	2	4	-	-
	PC9. Seeks clarifications from supervisors or other authorized personnel in case of perceived risks	1	3	-	-
	PC10. Monitor the workplace and work processes for potential risks and threats.	1	3	-	-
	PC11. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	2	3	-	-
	PC12. Report hazards and potential risks/threats to supervisors or other authorized personnel	3	4	-	-
	PC13. Participate in mock drills/ evacuation procedures organized at the workplace	2	3	-	-
	PC14. Undertake first aid, fire-fighting and	2	4	-	-

	emergency response training, if asked to do so				
	PC15. Take action based on instructions in the event of fire, emergencies or accidents	2	6	-	-
	PC16. Follow organization procedures for evacuation when required	2	6	-	-
	Total Marks	30	70	-	-
HCS/N9903: Maintain personal Hygiene	Adopt healthy work practices	18	48	-	-
	PC1. always cover the mouth and nose with a dust mask while working and keep on changing when it gets blocked with dust	3	8	-	-
	PC2. wear safety shoes while visiting the production unit to avoid any damage	3	8	-	-
	PC3. wear personal protective equipment while visiting the different departments during production. for example mask in the washing section, glasses and mask in an assembly line, and gloves in the printing section, etc.	3	8	-	-
	PC4. always wash sanitize your hands after a factory unit before touching any document, laptop, cell phone, etc.	3	8	-	-
	PC5. undergo preventive health checkups at regular intervals.	3	8	-	-
	PC6. take prompt treatment from the doctor in case of illness.	3	8	-	-
	Achieve work productivity while maintaining health	9	25	-	-
	PC7. follow SOPs for dealing with blisters; scratches; accidental fires or any other type of emergencies at work	3	8	-	-
	PC8. ensure no productivity loss or absenteeism from work due to illness	3	8	-	-
	PC9. ensure no long-term ill effect on personal	3	9	-	-

	health.				
	Total Marks	27	73	-	-
DGT/VSQ/N0102: Employability Skills (60 Hours)	Introduction to Employability Skills	1	1	-	-
	PC1. identify employability skills required for jobs in various industries	-	-	-	-
	PC2. identify and explore learning and employability portals	-	-	-	-
	Constitutional values – Citizenship	1	1	-	-
	PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
	PC4. follow environmentally sustainable practices	-	-	-	-
	Becoming a Professional in the 21st Century	2	4	-	-
	PC5. recognize the significance of 21st Century Skills for employment	-	-	-	-
	PC6. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
	Basic English Skills	2	3	-	-
	PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
	PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
	PC9. write short messages, notes, letters, e-mails etc. in English	-	-	-	-

	Career Development & Goal Setting	1	2	-	-
	PC10. understand the difference between job and career	-	-	-	-
	PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
	Communication Skills	2	2	-	-
	PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
	PC13. work collaboratively with others in a team	-	-	-	-
	Diversity & Inclusion	1	2	-	-
	PC14. communicate and behave appropriately with all genders and PwD	-	-	-	-
	PC15. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
	Financial and Legal Literacy	2	3	-	-
	PC16. select financial institutions, products and services as per requirement	-	-	-	-
	PC17. carry out offline and online financial transactions, safely and securely	-	-	-	-
	PC18. identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
	PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
	Essential Digital Skills	3	4	-	-
	PC20. operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
	PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
	PC22. use basic features of word processor,				

	spreadsheets, and presentations	-	-	-	-
	Entrepreneurship	2	3	-	-
	PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
	PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
	PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
	Customer Service	1	2	-	-
	PC26. identify different types of customers	-	-	-	-
	PC27. identify and respond to customer requests and needs in a professional manner.	-	-	-	-
	PC28. follow appropriate hygiene and grooming standards	-	-	-	-
	Getting ready for apprenticeship & Jobs	2	3	-	-
	PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
	PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
	PC31. apply to identified job openings using offline/online methods as per requirement	-	-	-	-
	PC32. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
	PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-

	Total Marks	20	30	-	-
	Grand Total	220	430	-	-

Annexure 7: Assessment Strategy

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

<1. Assessment System Overview:

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

2. Testing Environment:

- 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.
-

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & trainer must be ToT Certified
-

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding
-

5. Method of verification or validation:

- Surprise visit to the assessment location
- ...

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored
-

On the Job:

1. Each module (which covers the job profile of Quality Check Technician- Ceramics) will be assessed separately.
2. The candidate must score 60% in each module to successfully complete the OJT.
3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
 - Videos of Trainees during OJT
 -
4. Assessment of each Module will ensure that the candidate is able to:
 - Effective engagement with the customers
 - Understand the working of various tools and equipment.....>

Annexure 8: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations

NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

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