

QUALIFICATION FILE

Bamboo Work Artisan

☒ 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 3**

Submitted By:

Handicrafts and Carpet Sector Skill Council-HCSSC

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Section1: Basic Details

1.	Qualification Name	Bamboo Work Artisan													
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: 2022/HC/HCSSC/06745 Version of qualification: 3.0	Qualification Name of the existing version: <i>(previous, once approved)</i> Bamboo Work Artisan												
4.	National Qualification Register (NQR) Code & Version <i>(Will be issued after NSQC approval)</i>	NQR Code: QG-03-HC-04003-2025-V2-HCSSC Version of qualification: 4.0	5. NCrF/NSQF Level: <i>NSQF Level 3</i>												
6.	Award (Certificate/Diploma/ Advanced Diploma/Any Other) <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	NA													
7.	Brief Description of the Qualification	Bamboo Work Artisan prepares bamboo by performing various steps and using various methods to make a final prepared bamboo product.													
8.	Eligibility Criteria for Entry for 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>10th grade pass</td> <td></td> </tr> <tr> <td>2</td> <td>Ability to read and write</td> <td>5 Year relevant experience</td> </tr> <tr> <td>3</td> <td>5th grade pass</td> <td>2.5 Year relevant experience</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	10 th grade pass		2	Ability to read and write	5 Year relevant experience	3	5th grade pass	2.5 Year relevant experience
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)													
1	10 th grade pass														
2	Ability to read and write	5 Year relevant experience													
3	5th grade pass	2.5 Year relevant experience													

		4	8th Grade pass	1 year relevant experience																			
		5	Previous relevant Qualification of NSQF Level 2.5	1.5 Year relevant experience																			
9.	Credits Assigned to this Qualification (as per National Credit Framework (NCrF))	13		10. Common Cost Norm Category (I/II/III) (wherever applicable): II																			
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>Theory (Hours)</th><th>Practical (Hours)</th><th>OJT Mandatory (Hours)</th><th>OJT Recommended (Hours)</th><th>Total (Hours)</th></tr> </thead> <tbody> <tr> <td>Classroom (offline)</td><td>120 (Including 20 hrs. of ES module)</td><td>270 (Including 10 hrs. of ES module)</td><td></td><td></td><td>390</td></tr> <tr> <td>Online</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	120 (Including 20 hrs. of ES module)	270 (Including 10 hrs. of ES module)			390	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																		
Classroom (offline)	120 (Including 20 hrs. of ES module)	270 (Including 10 hrs. of ES module)			390																		
Online																							
		(Refer Blended Learning Annexure for details)																					
13.	Aligned to NCO/ISCO Codes (if code is not available, then mention the same)	NCO- 2015/7317.0300																					
14.	Progression Path After Attaining the Qualification (Please show Professional and Academic progression) (wherever applicable)	Vertical Merchandiser (Level 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?	Handicrafts and Carpet Sector has around 40 to 50% of Women Artisan.
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@hcssc.in Contact No.: 011-26139834 Website: www.hcssc.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.	Introduction to Bamboo products in India	HCS/N8729 NOS Version 1.0	Core	3	1	30:00	00:00	NA	NA	30:00	28	72	-	-	100	
2.	Entrepreneurship skills for Bamboo work artisan	HCS/N8726 NOS Version 1.0	Core	3	1	05:00	25:00	NA	NA	30:00	28	72	-	-	100	
3.	Working in a team	HCS/N9908 NOS Version 1.0	Non-core	3	1	05:00	25:00	NA	NA	30:00	29	71	-	-	100	
4.	Maintaining workplace health and safety	HCS/N9945 NOS Version 1.0	Non-core	3	1	05:00	25:00	NA	NA	30:00	30	70	-	-	100	
5.	Maintain Personal Cleanliness	HCS/N9935 NOS Version 1.0	Non-core	3	1	05:00	25:00	NA	NA	30:00	30	70	-	-	100	
6.	Employability & Entrepreneurship Skills	DGT/VSQ/N 0101 NOS Version 1.0	Non-core	2	1	20:00	10:00	NA	00:00	30:00	20	30	-	-	50	
					6	70:00	110:00	NA	00:00	180:00	165	385			550	

Elective 1- Bamboo Basket Making

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.	Carry out preparation of bamboo slivers	HCS/N8711 NOS Version 3.0	Core	3	1	10:00	20:00	NA	NA	30:00	32	68	0	0	100	
2.	Carry out weaving & twining of bamboo slivers to achieve the final product as per requirement	HCS/N78712 NOS Version 3.0	Core	3	2	10:00	50:00	NA	NA	60:00	38	62	0	0	100	
3.	Carry out finishing, varnishing, drying & storage of bamboo basket	HCS/N78713 NOS Version 3.0	Core	3	1	10:00	20:00	NA	NA	30:00	24	76	0	0	100	
4.	Carry out the process of Ringal Basketry	HCS/N8730 NOS Version	Core	3	2	10:00	50:00	NA	NA	60:00	28	72	0	0	100	

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/non-core	NCrF/NSQ F 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)
		1.0														
5.	Contribute to achieve quality bamboo basket making	HCS/N8714 NOS Version 3.0	Core	3	1	10:00	20:00	NA	NA	30:00	30	70	0	0	100	
					7	50:00	160:00	NA	NA	210:00	152	348	0	0	500	

Elective 2- Bamboo Mat Weaving

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/non-core	NCrF/NSQ F 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.	Carry out basic pre-loom operations	HCS/N8731 NOS	Core	3	3	20:00	70:00	NA	NA	90:00	28	72	0	0	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)
		Version 1.0														
2.	Carry out basic weaving operations	HCS/N8732 NOS Version 1.0	Core	3	3	20:00	70:00	NA	NA	90:00	30	70	0	0	100	
3.	Ensure Quality in Bamboo Mat Weaving	HCS/N8733 NOS Version 1.0	Core	3	1	10:00	20:00	NA	NA	30:00	28	72	0	0	100	
					7	50:00	160:00	NA	NA	210:00	86	214	0	0	300	

Elective 3- Bamboo Utility Products

S.	NOS/Module Name	NOS/Mod	Core/	NCrF/	Credi	Training Duration (Hours)					Assessment Marks					
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No		ule Code & Version (if applicable)	non-core	NSQ F Level	ts as per NCrF	Th.	Pr.	OJT - Man	OJT-Rec.	Tot al	Th.	Pr.	Proj .	Viv a	Total	Weighta ge (%) (if applica ble)
1.	Carry out the cutting and processing of materials	HCS/N87 34 NOS Version 1.0	Core	3	3	20:00	70:00	NA	NA	90:00	32	68	0	0	100	
2.	Carry out the process of assembling different types of materials	HCS/N87 35 NOS Version 1.0	Core	3	3	20:00	70:00	NA	NA	90:00	29	71	0	0	100	
3.	Ensuring Quality in Bamboo Utility Handicraft Assembly	HCS/N87 36 NOS Version 1.0	Core	3	1	10:00	20:00	NA	NA	30:00	28	72	0	0	100	
					7	50:00	160:00	NA	NA	210:00	89	211	0	0	300	

Elective 4- Making of Khunda

S.	NOS/Module Name	NOS/Mod	Core/	NCrF/	Credi	Training Duration (Hours)	Assessment Marks
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No		ule Code & Version (if applicabl e)	non-core	NSQ F Level	ts as per NCrF	Th.	Pr.	OJT - Man	OJT-Rec.	Tot al	Th.	Pr.	Proj .	Viv a	Total	Weighta ge (%) (if applica ble)
1.	Carry out the preparation and design for Khunda	HCS/N87 27 NOS Version 1.0	Core	3	5	30:00	120:00	NA	NA	150:00	28	72	0	0	100	
2.	Finishing and Quality Assurance in Khunda Making	HCS/N87 28 NOS Version 1.0	Core	3	2	20:00	40:00	NA	NA	60:00	36	64	0	0	100	
						50:00	160:00	NA	NA	210:00	64	136	0	0	200	

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

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	12 TH Grade pass/ Graduate with Basic IT skills in the experience of performing various steps using various methods to make a final prepared bamboo product
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines) wherever applicable	12 TH Grade pass/ Graduate with Basic IT skills in the experience of performing various steps using various methods to make a final prepared bamboo product
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines) wherever applicable	12 TH Grade pass/ Graduate with Basic IT skills in the experience of performing various steps using various methods to make a final prepared bamboo product
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
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 (<i>Mandatory, in case selected Mode of delivery is Blended Learning</i>)	Blended learning called a “flipped classroom”, “hybrid learning” or “mixed learning,” is an approach that mixes instructor-led classroom training with online content, which could be in the form of on-demand videos that learners review outside of class. The live instruction can be face-to-face or online (via a live virtual classroom or even two-way video), or there might be no live lecture at all. Blended learning represents a learning model that combines both formal (traditional classroom) and non-formal (online) methodologies. (Annexure 5)
6.	Annexure: Multiple Entry-Exit Details (<i>Mandatory, in case qualification has multiple Entry-Exit</i>)	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-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>)	NA
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	The incumbent works in familiar	This is at level 3, it requires	3

Knowledge/Process	and predictable routine of bamboo work. • to make slivers from bamboo splits • sorting & drying of sliver • bundling & storage of slivers • making two dimensional bamboo sliver base according to specified design & size on which weaving & twining is to be done • carrying the process of weaving & twining in the definite pattern & design • clipping the extra unwanted sliver from the basket & fix the edges. • drying of bamboo basket. • varnishing & drying of bamboo basket • storage of bamboo basket products • prerequisite for undertaking pre-loom operations • perform denting operation to carry out weaving of bamboo mat • attach the warp on the loom • prepare for weaving bamboo mats	clear choice of procedures, as here the procedure is standardised by the direction of the supervisor Example • receive instructions on work requirement from superior • receive and understand the design specification • understand the job sheet and the weaving methods	
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	• identify and perform primary weaving operations • identify and perform secondary weaving operations • identify and perform post loom operations & finishing • marking on the material surface as per the given size & specification • cutting based on the given marking • identifying & preparing the points/surfaces for joining • positioning, placing, attaching and finishing		
Professional and Technical Skills/ Expertise/ Professional Knowledge	The incumbent works in familiar and predictable routine of bamboo work. • to make slivers from bamboo splits • sorting & drying of sliver • bundling & storage of slivers • making two dimensional bamboo sliver base according to specified design & size on which weaving & twining is to be done • carrying the process of	It is at level 3 as this level as outlined above requires factual knowledge of field of study and not mere basic facts, process and principle knowledge of trade of employment	3

	weaving & twining in the definite pattern & design • clipping the extra unwanted sliver from the basket & fix the edges. • drying of bamboo basket. • varnishing & drying of bamboo basket • storage of bamboo basket products • prerequisite for undertaking pre-loom operations • perform denting operation to carry out weaving of bamboo mat • attach the warp on the loom • prepare for weaving bamboo mats • identify and perform primary weaving operations • identify and perform secondary weaving operations • identify and perform post loom operations & finishing • marking on the material surface as per the given size & specification • cutting based on the given		
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	marking • identifying & preparing the points/surfaces for joining • positioning, placing, attaching and finishing		
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	The incumbent works in familiar and predictable routine of bamboo work. • to make slivers from bamboo splits • sorting & drying of sliver • bundling & storage of slivers • making two dimensional bamboo sliver base according to specified design & size on which weaving & twining is to be done • carrying the process of weaving & twining in the definite pattern & design • clipping the extra unwanted sliver from the basket & fix the edges. • drying of bamboo basket. • varnishing & drying of bamboo basket • storage of bamboo basket products • prerequisite for undertaking pre-loom operations • perform denting operation	This is at level 3 as it is missing required cognitive skills and range of methods for problem solving which is for level 4.	3

	to carry out weaving of bamboo mat • attach the warp on the loom • prepare for weaving bamboo mats • identify and perform primary weaving operations • identify and perform secondary weaving operations • identify and perform post loom operations & finishing • marking on the material surface as per the given size & specification • cutting based on the given marking • identifying & preparing the points/surfaces for joining • positioning, placing, attaching and finishing		
Broad Learning Outcomes/Core Skill	The incumbent works in familiar and predictable routine of bamboo work. • to make slivers from bamboo splits • sorting & drying of sliver • bundling & storage of slivers • making two dimensional	Written and oral communication is required with clarity so its level 3.	3

	bamboo sliver base according to specified design & size on which weaving & twining is to be done • carrying the process of weaving & twining in the definite pattern & design • clipping the extra unwanted sliver from the basket & fix the edges. • drying of bamboo basket. • varnishing & drying of bamboo basket • storage of bamboo basket products • prerequisite for undertaking pre-loom operations • perform denting operation to carry out weaving of bamboo mat • attach the warp on the loom • prepare for weaving bamboo mats • identify and perform primary weaving operations • identify and perform secondary weaving operations • identify and perform post		
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	loom operations & finishing • marking on the material surface as per the given size & specification • cutting based on the given marking • identifying & preparing the points/surfaces for joining • positioning, placing, attaching and finishing		
Responsibility	The incumbent works in familiar and predictable routine of bamboo work. • to make slivers from bamboo splits • sorting & drying of sliver • bundling & storage of slivers • making two dimensional bamboo sliver base according to specified design & size on which weaving & twining is to be done • carrying the process of weaving & twining in the definite pattern & design • clipping the extra unwanted sliver from the basket & fix the edges. • drying of bamboo basket. • varnishing & drying of	Responsible for own work and learning therefore at level 3	3

	bamboo basket • storage of bamboo basket products • prerequisite for undertaking pre-loom operations • perform denting operation to carry out weaving of bamboo mat • attach the warp on the loom • prepare for weaving bamboo mats • identify and perform primary weaving operations • identify and perform secondary weaving operations • identify and perform post loom operations & finishing • marking on the material surface as per the given size & specification • cutting based on the given marking • identifying & preparing the points/surfaces for joining • positioning, placing, attaching and finishing		
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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	Sand paper	Used for smoothing and refining the surface of bamboo, ensuring a polished and even finish in the final product	2 bag
2	Hammer	Used for securing bamboo components together by driving nails, providing structural integrity to the artisan's creations	7 types
3	Nails	<i>Used as fasteners for joining bamboo pieces, contributing to the overall stability and strength of the crafted item</i>	2 bag
4	Cutting knife	A precision tool for shaping and carving bamboo, enabling the artisan to create intricate details and designs in their work	30 eqpt nos
5	Thinner	A precision tool for shaping and carving bamboo, enabling the artisan to create intricate details and designs in their work	2 bundle
6	Warping machine	Facilitates the process of arranging and preparing bamboo strips for weaving, ensuring consistency and ease in the production of bamboo products	1 eqpt nos
7	Winding machine	Aids in the efficient winding of bamboo strips or threads, enhancing the artisan's workflow during the crafting process	1 eqpt nos
8	Bobbin	Holds the bamboo thread, allowing for organized and controlled use during weaving or stitching in bamboo work	2 bag

9	Reed hook	Assists in pulling and maneuvering bamboo strips during the weaving process, ensuring precision and accuracy in the final design	5 bundle
10	Spray	Utilized for applying finishes or protective coatings to bamboo items	20 eqpt nos
11	Brush	Helps evenly distribute finishes or glues onto bamboo surfaces, contributing to the overall quality of the finished product	30 eqpt nos
12	Glue	Essential adhesive for bonding bamboo components together	5 bundle
13	Scissor	Used for cutting bamboo strips or threads with precision, allowing the artisan to control the length and shape of individual elements	1 each
14	Bamboo slivers	Thin strips of bamboo employed in intricate weaving patterns or detailed designs, adding texture and visual interest to the artisan's work	6 bag
15	Protective gears like mask, gloves	Essential safety equipment to protect the artisan from potential hazards, ensuring a safe working environment	1 each
16	Moister tester	Measures the moisture content in bamboo, aiding the artisan in selecting appropriately dried materials for their projects	18 eqpt nos
17	Measuring tape	Ensures accurate measurements, helping the bamboo artisan achieve precision in the sizing and proportion of their creations	1 each
18	Hand saw	Used for cutting larger bamboo sections or for making precise cuts that are challenging with other tools	30 eqpt nos
19	Marker	Enables the artisan to make temporary marks or measurements on bamboo, aiding in accurate and consistent crafting	5 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	AGRAWAL TOYS EMPORIUM	Mr. Bihari Lal Agarwal	Proprietor	B-2/44, Lolark Kund, Tulsi Ghat Road, Bhadaini, Varanasi-221005 (UP)	9984267168 9415225024	agrtoysemporium@gmail.com	
2	CANE CONCEPT	Mr. Tesha	Manager	5th mile Sovima Village Razha Khel H/No- 83 Dist: Chumukedima, P.S Chumukedima State: Nagaland Pin: 797103.	7005279772	caneconcept@gmail.com	
3	KASHI HASTKALA CO-OPERATIVE SOCIETY LTD.	Gopeshwar Singh		B24/93 A Kashmiri Ganj, Khojhwa, Varanasi, Uttar Pradesh-221010.	6386272122	gopeshwarsinghsingh@gmail.com	

4	MACROBIAN TECHNOLOGIES PVT. LTD.,	Minhaj Alam	Operations Manager	PLOT NO-11, LANE NO-2, DOON HILLS COLONY, RING ROAD, LADPUR, DEHRADUN-248008 (UK)	9431397274	macrobiantechnologiespvtltd@gmail.com	
5	HEIRLOOM NAGA	Mr. Tesha	Manager	Cane Concept, 5th mile Sovima Village Razha Khel H/No- 83 Dist: Chumukedima, P.S Chumukedima State: Nagaland Pin: 797103.	7005279772	heirloomnaga@gmail.com	
6	MSME	AMAN KUMAR,	Artisan	B-22/14 Kashmiri Ganj Bhalupur, Bhelapur, Varanasi-221010- Uttar Pradesh.)	7505193260		
7	MSME	AMAR SINGH	Artisan	Kashmiriganj Khojawa, Varanasi, Uttar Pradesh.	739883912		
8	MSME	AMRITA SINGH	Artisan	Khojhwa, Varanasi, Uttar Pradesh-221005.	8858219594		
9	MSME	ASHOK SINGH	Artisan	B24/158 Kashmiri Ganj, Khojhwa Bazar, Ramjanki Mandir, Varanasi, Uttar Pradesh-221010.	8576023534		
10	MSME	ASHVANI TIWARI	Artisan	B-217 Police Station, Assi, Varanasi, Uttar Pradesh-221005.	8960001979		

11		CHANDRASHEKAR	Artisan	71 Muniyappana Doddi, Lalaghatta, Ramanagara-KR	9741513809		
12	MSME	DASRATH BIND	Artisan	D-59/227 AKSSPADMINI, SHIVPURVA, Varanasi, Uttar Pradesh-221010.	9335755373		
13	MSME	DEEPAK KUMAR	Artisan	N/15/570, Kirhiya, Khojwa Mehmood Ganj, Kusum Talkies Chauraha, Varanasi, Uttar Pradesh-221010.	8853128126		
14	MSME	DEVI PRASAD SINGH	Artisan	B-24/111 Kashmiri Ganj Bhalupur, Bhelapur, Varanasi- 221010- Uttar Pradesh.	8009361878		
15	MSME	GOPESHWAR SINGH	Artisan	B24/93 A Kashmiri Ganj, Khojhwa, Varanasi, Uttar Pradesh-221005.	6386272122 8934954012		
16	MSME	KENYULE THYUG	Artisan	156, 349 Near Deaf & Dumb School, Purana Bazar Naharbari, Dimapur-797112 (Nagaland)	9856187953		
17	MSME	KOMAL SINGH KUNDER	Artisan	B24/93 A Kashmiri Ganj, Khojhwa, Varanasi, Uttar Pradesh-221005.	9336922199		

18	MSME	MANJUNATH	Artisan	Near Biralingesar, Kuvempu School, Kinnal 2 rd Ward, Koppal (New)-583230 KR	7353836341		
19	MSME	MEGHANA	Artisan	Aruda Nilaya, Kinnal, Koppal (New)-583230 (KR)	7619191676		
20	MSME	NYAIPA	Artisan	156, ABOI, Mon- 798603-Nagaland	9612549613		
21	MSME	PARVATI	Artisan	Huvunhal, Koppal (New)-583238 (KR	8722210501		
22	MSME	PRASHANTA	Artisan	W No-6, khdc Clony, Kinnal, Koppal (New)- 583230 (KR)			
23	MSME	PRATIBHA V. KATURAKI	Artisan	Kinnal, Koppal (New)- 583230 (KR)	9901970750		
24	MSME	PRUTHIRAJ	Artisan	Near-116 ONI, Kinnal, Koppal (New)-583230 (KR)	9353710196		
25	MSME	PUTTAIAH	Artisan	Lalagassa, Maramma Temple, Chamraj Nagar-562161 (KR)	9737321340		
26	MSME	PRAMOD KUMAR	Artisan	K56/115, Visheswar Ganj, Ausanganj, Varanasi, Uttar Pradesh-221001.	7523010153		
27	MSME	SAIJAL SINGH	Artisan	Khojawan, Varanasi-	8858219594		

		KUNDE		221005- Uttar Pradesh			
28	MSME	SANTOSH KUMAR SINGH	Artisan	B-22/24, Akhojwa, Bhalupur, Chhethpure, Varanasi, Uttar Pradesh	8419092750		
29	MSME	SAIVARAM	Artisan	Near Kuvempu School, Kinnal, Koppal (New)-583230 (KR)	6361851728		
30	MSME	SATNTOSH CHANDI	Artisan	Near Kuvempu School, Kinnal 2 rd Ward, Koppal (New)-583230 KR	6362062175		
31	MSME	SHASHI KUMAR	Artisan	H. No.- 12W No-3, Kinnal, Koppal (New)-583230 (KR)	8867642735		
32	MSME	SHIVAMMA	Artisan	2-Ward, Kinnal, Koppal (New)-583230 (KR)	8123778525		
33	MSME	SRI RAM PRAJAPATI	Artisan	B7/196, Kedarnath, Varanasi, Uttar Pradesh-221001.	7523010153		
34	MSME	SRINIVASA	Artisan	67-Lalagatta Channapatnaa, Muniyappana Doddi, Ramnagara-562160, (KR)	9686630433		
35	MSME	SURESH	Artisan	Chitraghar Oni, Kinnal Basaveshwara, Koppal (New)-583230 (KR)	8971306691		

36	MSME	TIPPESH	Artisan	W No-2, Kinnal, Koppal (New)-583230 (KR)	8748035520		
37	MSME	UMA	Artisan	W NO-9, Kudarimoti, Kinnal, Koppal (New)-583230 (KR)	9742238032		
38	MSME	VENKATESH	Artisan	Lalagatta Channapatnaa, Muniyappana Doddi, Ramnagara-562160, (KR)	9986581994		
39	MSME	VIKAS PRAJAPATI	Artisan	054/108 Jaddumandi Laksa, Tekra Matth, Varanasi, Uttar Pradesh-221010.	9554606027		
40	MSME	VIRESH	Artisan	Near Hosmani, Kinnal Jatiger Onivinayaka Nagara, Koppal (New)-583230 (KR)	8431737730		

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
2024-25	10000	Self-employment	Approx. 60%	Self-employment	N/A	N/A
2025-26	20000	Self-employment	Approx. 60%	Self-employment	N/A	N/A
2026-27	40000	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	1335	1330	1330	Self-employed	More than 60%	More than 60%	More than 60%	Self-employed	NA	NA	NA	NA
3.0	2022-2023	1161	1123	1123	Self-employed	More than 60%	More than 60%	More than 60%	Self-employed	NA	NA	NA	NA
3.0	2023-2024	6460	5145	5145	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. National Bamboo Mission,
5. Samarth
6. National Urban Livelihood Mission-NULM
7. Sankalp
8. One District One Product
9. National Rural Livelihood Mission-DDU-GKY
10. 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:

Languages in which Content is available:

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 up to 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/N8729: Introduction to Bamboo products in India	Understanding the Significance of Bamboo in India	6	18	-	-
	PC1. Identify bamboo as a sustainable, renewable resource, emphasizing its environmental, economic, and cultural relevance in India.	2	6	-	-
	PC2. Recognize the role bamboo plays in reducing deforestation, improving air quality, and supporting rural livelihoods across major bamboo-producing regions.	2	6	-	-
	PC3. Understand the traditional uses of bamboo in Indian culture, particularly in regions like Northeast India, Kerala, and Bengal, and how it supports local economies and crafts.	2	6	-	-
	Exploring Types of Bamboo Products	6	18	-	-
	PC4. Classify the different types of bamboo products based on their use, including utility products, decorative items and functional products.	2	6	-	-
	PC5. Understand traditional bamboo crafting techniques, such as weaving and carving, used to make products like mats, storage containers, and chairs.	2	6	-	-
	PC6. Explore modern applications of bamboo, including bamboo-based textiles, construction materials, and	2	6	-	-

	biodegradable products, like bamboo packaging and utensils.				
	Analyzing Market Demand for Bamboo Products	7	18	-	-
	PC7. Research current consumer trends, particularly the increasing demand for eco-friendly and biodegradable products, and assess the role of bamboo in this market.	2	6	-	-
	PC8. Understand the domestic market for bamboo products, focusing on how traditional crafts are gaining popularity as environmentally conscious consumer behavior increases.	2	6	-	-
	PC9. Explore government schemes that support market development, entrepreneurship, and export promotion for bamboo-based industries.	3	6	-	-
	Strategies for Promoting Bamboo Products	9	18	-	-
	PC10. Develop branding strategies to highlight the eco-friendly and cultural heritage aspects of bamboo products to attract modern consumers.	3	6	-	-
	PC11. Develop packaging and presentation techniques that enhance the appeal of bamboo products for both domestic and global markets.	3	6	-	-
	PC12. Understand how certifications like "ecofriendly" or "sustainable" can add value to bamboo products and increase market acceptance.	3	6	-	-
	Total Marks	28	72	-	-
HCS/N8726: Entrepreneurship skills for Bamboo work artisan	Market Research and Customer Analysis	6	10	-	-
	PC1. Identify and analyze target customer segments for bamboo products.	2	3	-	-
	PC2. Conduct market research to understand current trends, preferences, and demands.	2	3	-	-
	PC3. Gather and analyze customer feedback to refine product offerings.	2	4	-	-
	Product Design and Development	4	8	-	-
	PC4. Assist in designing innovative bamboo products that cater to market demands.	2	4	-	-
	PC5. Collaborate with other artisans to refine product designs	2	4	-	-

	based on aesthetics and functionality.				
	Quality Assurance and Control	6	18	-	-
	PC6. Conduct regular quality checks to ensure products meet industry standards.	2	6	-	-
	PC7. Identify defects or inconsistencies and recommend corrective measures.	2	6	-	-
	PC8. Document quality control processes and outcomes for continuous improvement.	2	6	-	-
	Financial Management and Pricing Strategy	8	24	-	-
	PC9. Maintain accurate financial records, including costs, sales, and profits.	2	6	-	-
	PC10. Assist in inventory management to optimize material usage.	2	6	-	-
	PC11. Engage in marketing efforts for bamboo products using various channels, including online and offline platforms	2	6	-	-
	PC12. Participate in direct sales at craft fairs, exhibitions, and through e-commerce platforms.	2	6	-	-
	Legal Compliance and Regulations	4	12	-	-
	PC13. Comply with intellectual property laws concerning product designs and branding.	2	6	-	-
	PC14. Understand packaging and labeling requirements for bamboo products.	2	6	-	-
	Total Marks	28	72	-	-
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 procedures; group discussions, training sensitization programs for gender, and PwD awareness organized at the workplace.	2	5	-	-
	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 colleagues.	3	5	-	-
	PC13. document all the details accurately relating to ones role as required.	3	5	-	-
	Total Marks	35	65	-	-
HCS/N9902: Maintain Safe and Healthy Work Environment	Follow safety procedures and practices	18	46	-	-
	PC1. carry out work functions in accordance with organizational standards, greening solutions, procedures, policies, legislation and regulations	2	5	-	-
	PC2. apply and follow these policies and procedures within your work practices and inculcate sustainable consumption practices	2	5	-	-
	PC3. actively get involved in improving the performance of the organization in line with their own role and responsibilities and support adaptation to more environmentally friendly processes	2	5	-	-

	PC4. comply with safety procedures while on work to prevent accidents	2	5	-	-
	PC5. take adequate safety measures while handling materials, chemicals and tools	2	6	-	-
	PC6. wear appropriate personal protective gears such as gloves, protective goggles, masks etc. while working	2	5	-	-
	PC7. wear appropriate and recommended clothing as per the work environment	2	5	-	-
	PC8. follow recommended material handling procedure to control material and personal damage.	2	5	-	-
	PC9. perform all procedures as per companys work instructions for controlling operational risk	2	5	-	-
	Achieve safety standards	10	26	-	-
	PC10. perform the duties in a manner which minimizes environmental damage	2	5	-	-
	PC11. dispose off waste safely and correctly in a designated area as per company's sop	2	5	-	-
	PC12. report any accidents, incidents or problems without delay to the supervisor and take necessary immediate action to reduce further danger	2	5	-	-
	PC13. ensure zero accident at workplace	2	5	-	-
	PC14. adhere to safety standards and ensure no material damage	2	6	-	-
	Total Marks	28	72	-	-
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. orexample mask in the washing section, glasses and mask in an assembly line, and	3	8	-	-

	gloves in the printing section, etc.				
	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 health.	3	9	-	-
	Total Marks	27	73	-	-

Elective 1- Bamboo Basket Making

HCS/N8711: Carry out preparation of bamboo slivers	To make slivers from Bamboo Splits	22	43	-	-
	PC1. appropriately use the hand saw.	2	3	-	-
	PC2. make the bamboo sliver by handling the bamboo split in the right manner.	2	3	-	-
	PC3. apply appropriate pressure on the bamboo split by using the hand saw to get the desired thickness of bamboo sliver	2	3	-	-
	PC4. make the bamboo sliver of the desired size from the splits.	2	3	-	-
	PC5. measure & maintain the uniformity of the sliver to be achieved	2	3	-	-
	PC6. minimise and dispose of the waste materials in the approved manner	2	3	-	-
	PC7. carry out operations at a rate that maintains workflow	2	5	-	-
	PC8. respond appropriately incase of any errors or faults in the bamboo and other operations	2	5	-	-

	PC9. leave work area safe and secure when work is complete	2	5	-	-
	PC10. maintain the sharpness of handsaw	2	5	-	-
	PC11. take safety precautions while drawing out the sliver	2	5	-	-
	Sorting & Drying of sliver	6	15	-	-
	PC12. identify and segregate the usable and the disposable bamboo slivers based on width, thickness, strength and colour	2	5	-	-
	PC13. ensure uniform and complete drying	2	5	-	-
	PC14. minimise and dispose of the waste materials in the approved manner	2	5	-	-
	Bundling & Storage of slivers	4	10	-	-
	PC15. take an appropriate amount (weight/number of pieces as per market demand) of bamboo slivers from the bulk lot	2	5	-	-
	PC16. undertake precautions while storage to avoid moisture	2	5	-	-
	Total Marks	32	68	-	-
HCS/N8712: Carry out weaving & twining of bamboo slivers to achieve the final product as per requirement	Making two dimensional Bamboo sliver base according to specified design & size on which weaving & twining is to be done	20	30	-	-
	PC1. take specific type (based on width & length) of bamboo slivers suitable for preparing the two dimensional base structure	2	3	-	-
	PC2. plan out the base & fix it (specifically for round base)to obtain a rigid structure.	2	3	-	-
	PC3. ensure that the base structure is fixed correctly before weaving bamboo slivers on to the base structure	2	3	-	-
	PC4. make the two dimensional bamboo sliver base according to the required design & pattern	2	3	-	-
	PC5. ask questions to obtain more information on tasks when the instructions you have are unclear	2	3	-	-
	PC6. to be able to work according to specified shape of bamboo basket	2	3	-	-
	PC7. check that the materials to be used are free from faults	2	3	-	-
	PC8. conform to organization's quality standards	2	3	-	-
	PC9. report any damaged work to the responsible person	2	3	-	-

	PC10. leave work area safe and secure when work is complete free from hazards	2	3	-	-
	Carrying the process of weaving & twining in the definite pattern & design	18	32	-	-
	PC11. take appropriate slivers (based on width & length) for weaving according to shape, size, colour & design pattern required in making specific basketry product	2	3	-	-
	PC12. do basic weaving in the given structure/frame	2	3	-	-
	PC13. analyze and maintain a uniform gap between the slivers as per the given specification	2	3	-	-
	PC14. analyze and maintain the compactness of the sliver to ensure rigidity of the structure	2	3	-	-
	PC15. analyze and carry out the bending wherever required according to the shape & size of the product to be achieved	2	3	-	-
	PC16. analyze and maintain quality in giving shapes	2	3	-	-
	PC17. ensure proper handling in making the basketry product to avoid any breakage	2	4	-	-
	PC18. detect faults & defects	2	5	-	-
	PC19. solve & rectify the faults	2	5	-	-
	PC13. analyze and maintain a uniform gap between the slivers as per the given specification	2	3	-	-
	PC14. analyze and maintain the compactness of the sliver to ensure rigidity of the structure	2	3	-	-
	PC15. analyze and carry out the bending wherever required according to the shape & size of the product to be achieved	2	3	-	-
	PC16. analyze and maintain quality in giving shapes	2	3	-	-
	PC17. ensure proper handling in making the basketry product to avoid any breakage	2	4	-	-
	PC18. detect faults & defects	2	5	-	-
	PC19. solve & rectify the faults	2	5	-	-
	Total Marks	38	62		
	Clipping the extra unwanted sliver from the basket & fix the edges	11	33	-	-

HCS/N8713: Carry out finishing, varnishing, drying & storage of bamboo basket	PC1. appropriate usage of clipping tool	1	3	-	-
	PC2. cut the extra edges neatly to give the fine finished look	1	3	-	-
	PC3. analyze and apply glue to fix the edges	1	3	-	-
	PC4. handle the bamboo basket properly to avoid any breakage	1	3	-	-
	PC5. dispose the waste materials in the approved manner	1	3	-	-
	PC6. carry out operations at a rate that maintains workflow	1	3	-	-
	PC7. respond appropriately in case of any errors or faults in the bamboo and other operations	1	3	-	-
	PC8. leave work area safe and secure when work is complete	1	3	-	-
	PC9. maintaining the workplace clean	1	3	-	-
	PC10. maintaining sharpness of clipping tool	1	3	-	-
	PC11. take safety precautions while clipping	1	3	-	-
	Drying of Bamboo Basket	2	6	-	-
	PC12. carry out effective drying of the basket to reduce moisture content	1	3	-	-
	PC13. take precautions while placing the baskets in a dust free area while drying	1	3	-	-
	Proper Varnishing & Drying of Bamboo Basket	9	29	-	-
	PC14. handle the brush or sprayer properly	1	3	-	-
	PC15. prepare the solution of varnish by adding an appropriate amount of thinner	1	3	-	-
	PC16. take an appropriate amount of solution to be applied to the bamboo basketry product	1	3	-	-
	PC17. apply solution on the bamboo basketry product uniformly	1	3	-	-
	PC18. handle the basket properly while doing varnishing	1	3	-	-
	PC19. ensure uniform and complete drying in sunlight to avoid stickiness	1	3	-	-
	PC20. check & ensure the quality of the final product based on desired specifications	1	3	-	-
	PC21. maintain the workplace clean	1	4	-	-
	PC22. dispose of the waste materials safely in approved manner	1	4	-	-

	Storage of Bamboo Basket products	2	8	-	-
	PC23. take precautions while stacking the lot of basket avoiding any breakage	1	4	-	-
	PC24. store the lot of basket in a dry area avoiding direct contact with the ground	1	4	-	-
	Total Marks	24	76		
HCS/N8730: Carry out the process of Ringal Basketry	Selection and Preparation of Raw Materials	8	24	-	-
	PC1. Identify and select high-quality Ringal bamboo suitable for basketry based on size, age, and flexibility.	2	6	-	-
	PC2. Perform initial cleaning and removal of unwanted outer layers from the selected Ringal bamboo stalks.	2	6	-	-
	PC3. Split the bamboo into appropriate-sized strips for weaving, ensuring consistency in thickness and smoothness.	2	6	-	-
	PC4. Treat the bamboo strips, if necessary, using natural or chemical preservatives to enhance durability and prevent pests.	2	6	-	-
	Weaving the Ringal Basket	8	24	-	-
	PC5. Prepare the base of the basket by arranging the bamboo strips in a crisscross pattern to form a sturdy foundation.	2	6	-	-
	PC6. Use traditional or modern weaving techniques to build the walls of the basket, ensuring tightness and evenness in the weave.	2	6	-	-
	PC7. Shape the basket according to the desired size and design, maintaining uniformity throughout the weaving process.	2	6	-	-
	PC8. Incorporate decorative elements or patterns into the basket using dyed or naturally colored bamboo strips, as required.	2	6	-	-
	Finishing and Quality Assurance	12	24	-	-
	PC9. Trim excess bamboo strips and smooth the edges of the basket to give it a refined appearance.	3	6	-	-
	PC10. Apply finishing techniques, such as polishing or coating, to enhance the aesthetic and functional quality of the basket.	3	6	-	-
	PC11. Conduct quality checks to ensure the basket is free from defects, such as loose weaves or sharp edges, and that it	3	6	-	-

	meets the required durability standards.				
	PC12. Ensure the final product is suitable for its intended use, whether for storage, carrying goods, or as a decorative item.	3	6	-	-
	Total Marks	28	72		
HCS/N8714: Contribute to achieve quality bamboo basket making	Contribute to achieving the product quality in Bamboo work	30	70	-	-
	PC1. identify and use raw materials as per the specifications provided	3	7	-	-
	PC2. take the necessary action when materials do not conform to quality standards	3	7	-	-
	PC3. report and replace identified faulty materials and component parts which do not meet specifications	3	7	-	-
	PC4. identify modifiable defects and rework on them	3	7	-	-
	PC5. carry out work safely and at a rate that maintains work flow	3	7	-	-
	PC6. report to the responsible person when the work flow of other production areas disrupts work	3	7	-	-
	PC7. carry out quality checks at specified intervals according to instructions	3	7	-	-
	PC8. apply the allowed tolerances	3	7	-	-
	PC9. identify faults and take appropriate action for rectification	3	7	-	-
	PC10. maintain the required productivity and quality levels	3	7	-	-
	Total Marks	30	70	-	-

Elective 2- Bamboo Mat Weaving

HCS/N8731: Carry out basic pre-loom operations	Pre-requisites for carrying out pre-loom operations	7	28	-	-
	PC1. identify the parts of the hand operated loom and understand their functioning.	1	4	-	-
	PC2. Analyze & interpret the given design (plain or twill weave)	1	4	-	-

	which needs to be woven & the type of raw material that is required.				
	PC3. Select and check appropriate materials for weaving the fabric as per the given specifications.	1	4	-	-
	PC4. Conform to product quality standards.	1	4	-	-
	PC5. Check with in-charge /others when unsure of new product details.	1	4	-	-
	PC6. Minimise and dispose the waste materials in the approved manner.	1	4	-	-
	PC7. Carry out operations at a rate which maintains workflow.	1	4	-	-
	Carry out drafting operations to enable the weaving of a bamboo mat	7	16		
	PC8. Understand basic or plain drafting.	1	4	-	-
	PC9. Carry out drafting by drawing the warp threads into the heald eyelets using the hook as per the given specifications.	2	4	-	-
	PC10. Detect, analyze, and rectify faults during the drafting process.	2	4	-	-
	PC11. Gradually knot the threads after drafting a set of ends to avoid mistakes in drafting.	2	4	-	-
	Perform denting operation to carry out weaving of Bamboo mat	4	8	-	-
	PC12. Draw the warp threads in the warped beam through the reed dents as per the given specifications	2	4	-	-
	PC13. Maintain the reed hook to ensure smooth functioning	2	4	-	-
	Attach the warp on the loom	10	20	-	-
	PC14. Attach the warp rolled beam on the loom, in order to keep the loom ready to commence weaving operations	2	4	-	-
	PC15. Knot the warp threads uniformly to the rod attached to the breast beam/fabric beam	2	4	-	-
	PC16. Maintain the correct tension of the warp threads to prepare the loom for weaving	2	4	-	-
	PC17. Analyze and maintain the tension of the warp threads uniformly by beating and inserting dummy weft	2	4	-	-

	PC18. Respond appropriately incase of any errors or faults in the warp and other pre-weaving operations and take corrective measures	2	4	-	-
	Total Marks	28	72		
HCS/N8732: Carry out basic weaving operations	Prepare for weaving Bamboo mats	5	15	-	-
	PC1. select the appropriate coloured bamboo sticks for insertion as wefts.	1	3	-	-
	PC2. ask questions to obtain more information on tasks when the instructions you have are unclear	1	3	-	-
	PC3. use the correct tools and materials.	1	3	-	-
	PC4. check that the materials to be used are free from faults, incase of any report them	1	3	-	-
	PC5. use the pedal to check if the shed formed is appropriate.	1	3	-	-
	Identify and perform primary weaving operations	3	11	-	-
	PC6. carry-out the primary weaving operation of picking shedding	1	3	-	-
	PC7. perform the primary weaving operation of battening.	1	4	-	-
	PC8. carry out beating uniformly	1	4	-	-
	Identify and perform secondary weaving operations	4	8	-	-
	PC9. carry-out the secondary weaving operations of take-up	2	4	-	-
	PC10. carry-out the secondary weaving operations of let-off	2	4	-	-
	Identify and perform post loom operations & finishing	18	36	-	-
	PC11. trim the edges of the woven mat evenly	2	4	-	-
	PC12. reduce wastage and maintain quality while cutting to get desired finishing	2	4	-	-
	PC13. roll the mat, tag and store in a dry place	2	4	-	-
	PC14. conform to organisations quality standards	2	4	-	-
	PC15. maintain bamboo mat weaving operations to conform to organisations quality standards.	2	4	-	-
	PC16. report any damaged work to the responsible person	2	4	-	-
	PC17. leave work area safe and secure when work is complete free from hazards	2	4	-	-
	PC18. inspect the woven mats as per the specifications	2	4	-	-

	provided.				
	PC19. perform all weaving-related operations with precision & accuracy.	2	4	-	-
	Total Marks	30	70		
HCS/N8733: Ensure Quality in Bamboo mat weaving	Achieve Quality in Bamboo Mat Weaving	28	72	-	-
	PC1. identify and use raw materials as per the specifications provided	2	6	-	-
	PC2. identify necessary actions to be taken when materials do not conform to quality standards.	2	6	-	-
	PC3. report and replace identified faulty materials and component parts which do not meet specification	2	6	-	-
	PC4. identify modifiable defects and rework on them.	2	6	-	-
	PC5. carry out work safely and at a rate which maintains workflow	2	6	-	-
	PC6. report to the person responsible when the workflow of other production areas disrupts work	2	6	-	-
	PC7. carry out quality checks at specified intervals according to instructions.	2	6	-	-
	PC8. apply the allowed tolerances and apply the same.	2	6	-	-
	PC9. identify faults and take appropriate action for rectification.	2	6	-	-
	PC10. make adjustments promptly to ensure the hand-woven mat matches the specification	2	6	-	-
	PC11. fault-find materials and components for stained damage and incorrectly made-up component parts	2	6	-	-
	PC12. maintain the required productivity and quality levels.	2	6	-	-
	Total Marks	28	72		

Elective 3- Bamboo Utility Products

	Perform marking on the material surface as per the given	10	24	-	-
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HCS/N8734: Carry out cutting & processing of materials	size and specification				
	PC1. ensure conformation of the material to be marked to the desired quality & specification	1	3	-	-
	PC2. carry out correct handling of the material surface to be marked	1	3	-	-
	PC3. use of rulers and marking templates appropriately.	1	3	-	-
	PC4. analyze and position the material appropriately to minimize waste.	1	5	-	-
	PC5. carry out appropriate marking with correct positioning of marker.	2	4	-	-
	PC6. check and prepare the markers before marking.	2	4	-	-
	PC7. carry out operations at a rate which maintains workflow	2	4	-	-
	Perform cutting based on the given marking	22	44	-	-
	PC8. handle different cutting tools	2	4	-	-
	PC9. carry out any preprocessing (like finishing the fibrous edges by gumming) required for fineness of cutting	2	4	-	-
	PC10. correct holding technique of the material to be cut	2	4	-	-
	PC11. carry out cutting operation effectively based on the markings	2	4	-	-
	PC12. carry out cutting of multiple units of material on single marking wherever possible	2	4	-	-
	PC13. inspect and ensure that the cut pieces conform to the given quality and specification.	2	4	-	-
	PC14. carry out operations at a rate which maintains workflow	2	4	-	-
	PC15. respond appropriately incase of any errors or faults/closing the bamboo and other operations.	2	4	-	-
	PC16. minimise and dispose the waste materials in the approved manner	2	4	-	-
	PC17. identify the safety precautions to be taken cutting.	2	4	-	-
	PC18. leave work area safe and secure when work is complete	2	4	-	-
	Total Marks	32	68		
HCS/N8735: Carry out the process of	Identifying & Preparing the joining points/surfaces for joining	7	27	-	-

assembling different types of materials	PC1. identify and mark the points/surface areas on the two materials pieces to be assembled.	1	3	-	-
	PC2. clean the surfaces to be attached from any unwanted materials	1	4	-	-
	PC3. use the correct joining technique.	1	4	-	-
	PC4. identify and use the appropriate type of glue, while assembling.	1	4	-	-
	PC5. apply adhesive on the marked area with minimum spill out.	1	4	-	-
	PC6. ensure the uniformity while applying layers of adhesive on a surface	1	4	-	-
	PC7. make sure the surface dry optimally for better adherence	1	4	-	-
	Perform positioning, placing, attaching and finishing of the bamboo product	22	44	-	-
	PC8. correctly position the two surfaces to be joined	2	4	-	-
	PC9. justify the order of placing one surface over another.	2	4	-	-
	PC10. use the appropriate joining bit/ nail if required.	2	4	-	-
	PC11. place & attach the parts correctly maintaining the line of joint	2	4	-	-
	PC12. . pressing (hammering if required) evenly throughout the joined parts	2	4	-	-
	PC13. pressing (hammering if required) evenly throughout the joined parts pc13. clean out glue spill outs or any unwanted marks on the surface of the assembled piece	2	4	-	-
	PC14. remove any unwanted fibres from the edges that may come out during the process	2	4	-	-
	PC15. inspect and ensure that the assembled unit conforms to the given quality and specification.	2	4	-	-
	PC16. minimise and dispose the waste materials in the approved manner	2	4	-	-
	PC17. carry out operations at a rate which maintains workflow	2	4	-	-
	PC18. leave work area safe and secure when work is complete	2	4	-	-

	Total Marks	29	71		
HCS/N8736: Ensuring Quality in Bamboo Utility Handicraft Assembly	Quality Control in Bamboo Utility products	28	72	-	-
	PC1. Identify and use raw materials as per the specifications provided.	2	6	-	-
	PC2. Take the necessary action when materials do not conform to quality standards	2	6	-	-
	PC3. Report and replace identified faulty materials and component parts which do not meet specification	2	6	-	-
	PC4. Ensure that the different components are assembled as per specifications	2	6	-	-
	PC5. Ensure that the suitable technique is used for assembling	2	6	-	-
	PC6. Identify modifiable defects and rework on them	2	6	-	-
	PC7. Carry out work safely and at a rate which maintains work flow	2	6	-	-
	PC8. Report to the responsible person when the work flow of other production areas disrupts work	2	6	-	-
	PC9. Carry out quality checks at specified intervals according to instructions	2	6	-	-
	PC10. Apply the allowed tolerances	2	6	-	-
	PC11. Identify faults and take appropriate action for rectification	2	6	-	-
	PC12. Maintain the required productivity and quality levels	2	6	-	-
	Total Marks	28	72		

Elective 4- Making of Khunda

HCS/N8727: Carry out the preparation and designing for Khunda	Prepare Bamboo for Crafting	6	18	-	-
	PC1. Identify and choose Khunda bamboo that meets specifications for strength and flexibility, ensuring it is free from defects.	2	6	-	-
	PC2. Use sustainable harvesting methods and transport the	2	6	-	-

	bamboo carefully to prevent damage.				
	PC3. Remove the outer skin and impurities, and apply natural preservatives to protect against decay and insect damage.	2	6	-	-
	Shape the Ends of Bamboo Staves	6	18	-	-
	PC4. Measure and cut the bamboo accurately to the required lengths using appropriate tools.	2	6	-	-
	PC5. Utilize chisels or knives to shape the ends of the bamboo staves for both functionality and aesthetics.	2	6	-	-
	PC6. Sand the shaped ends to ensure a smooth and polished finish, free from rough edges and splinters.	2	6	-	-
	Design the Khunda	7	18	-	-
	PC7. Create initial sketches that incorporate traditional motifs and practical features relevant to the Khunda.	2	6	-	-
	PC8. Develop detailed design plans, outlining dimensions, proportions, and specific features of the khunda. and job portals, respectively	2	6	-	-
	PC9. Construct prototypes based on finalized designs and make adjustments as needed.	3	6	-	-
	Plan for Iron Tip Integration	9	18	-	-
	PC10. Select suitable iron materials for tips, specifying dimensions and shapes that enhance the design.	3	6	-	-
	PC11. Develop a plan for securely attaching iron tips to the bamboo staves using methods like welding or riveting.	3	6	-	-
	PC12. Ensure that all necessary tools and materials are prepared, and conduct final inspections of both bamboo staves and iron tips.	3	6	-	-
	Total Marks	28	72		
HCS/N8728: Finishing and Quality Assurance in Khunda Making	Implement Finishing Techniques	12	18	-	-
	PC1. Identify and choose suitable finishing materials such as natural oils, varnishes, or lacquers that enhance the aesthetic and protective qualities of the bamboo staves.	4	6	-	-
	PC2. Use techniques such as brushing, spraying, or dipping to evenly apply the finishing materials, ensuring thorough	4	6	-	-

	coverage and a smooth finish.				
	PC3. Allow sufficient time for the finish to cure and dry, adhering to recommended drying times to achieve optimal results.	4	6	-	-
	Conduct Quality Control Inspections	12	22	-	-
	PC4. Develop specific criteria for quality checks that encompass appearance, dimensions, and structural integrity of the Khunda.	4	6	-	-
	PC5. Conduct thorough visual inspections for defects, ensuring that the bamboo is free from cracks, splinters, and uneven surfaces.	4	8	-	-
	PC6. Use measuring tools to verify that the khunda meets the specified dimensions and tolerances outlined in the design plans.	4	8	-	-
	Test Functional Performance	12	24	-	-
	PC7. Conduct tests to evaluate the strength and durability of the bamboo staves under various loads to ensure they can withstand functional use.	4	8	-	-
	PC8. Test the khunda for ease of handling and functionality, ensuring that it meets the intended design and performance standards.	4	8	-	-
	PC9 Record findings from functional tests and inspections to maintain quality assurance records and inform any necessary adjustments or improvements.	4	8	-	-
Total Marks		36	64		
DGT/VSQ/N0101 Employability Skills (30 Hours)	Introduction to Employability Skills	1	1	-	-
	PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
	Constitutional values – Citizenship	1	1	-	-
	PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
	Becoming a Professional in the 21st Century	1	3	-	-
	PC3. explain 21st Century Skills such as Self Awareness,	-	-	-	-

Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.				
Basic English Skills	2	3	-	-
PC4. speak with others using some basic English phrases or sentences	-	-	-	-
Communication Skills	1	1	-	-
PC5. follow good manners while communicating with others	-	-	-	-
PC6. work with others in a team	-	-	-	-
Diversity & Inclusion	1	1	-	-
PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC8. report any issues related to sexual harassment	-	-	-	-
Financial and Legal Literacy	3	4	-	-
PC9. use various financial products and services safely and securely	-	-	-	-
PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
Essential Digital Skills	4	6	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
Entrepreneurship	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
Customer Service	2	2	-	-
PC16. identify different types of customers	-	-	-	-
PC17. identify customer needs and address them appropriately	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-

	Getting ready for apprenticeship & Jobs	1	3	-	-
	PC19. create a basic biodata	-	-	-	-
	PC20. search for suitable jobs and apply	-	-	-	-
	PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
	Total Marks	20	30	-	-
	Grand Total	556	1294		

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 Bamboo Work Artisan) 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