

NSDA Code 2020/HC/DGT/03704
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CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Directorate General of Training (DGT)
Government of India, Ministry of Skill Development and Entrepreneurship,
1st and 2nd Floor, CIRTES Building
Next to Pusa ITI, Pusa Campus
New Delhi – 110012.

Name and address of submitting body:

Directorate General of Training (DGT)
Government of India, Ministry of Skill Development and Entrepreneurship,
1st and 2nd Floor, CIRTES Building
Next to Pusa ITI, Pusa Campus
New Delhi – 110012.

Name and contact details of individual dealing with the submission

Name: Shri Deepankar Mallick

Position in the organisation: Deputy Director General (C & P)

Address if different from above:

Tel number(s): 011-25847035

E-mail address: deepankar.mallick60@nic.in

List of documents submitted in support of the Qualifications File

1. Competency-based curriculum with following details:

Model Curriculum to be added which will include the following:

- a) Indicative list of tools/equipment to conduct the training: Enclosed with curriculum
- b) Trainers qualification: Indicated in the curriculum

- c) Lesson Plan: All DGT curricula are designed indicating specific practical to be carried out during training along with details of trade theory. Based on this the concerned instructor prepares the Lesson Plan and Demonstration Plan with support of IMPs developed by NIMI,DGT.
 - d) Distribution of training duration into theory/practical/OJT component: Indicated in the curriculum.
2. Curriculum for Core Skills (Employability Skills).

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e) SUMMARY

1	Qualification Title	‘BAMBOO WORKS’
2	Qualification Code, if any	DGT/1108
3	NCO code and occupation	7317.0800 – Mat Weaver, Bamboo 7317.0300 – Furniture Maker, Bamboo 7317.0700 – Basket Maker 7317.1100 – Chick Maker 7317.1200 – Khas Thatti Maker
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	Prepare skilled craftsman to undertake the job roles of Bamboo Works and will enable the trainee to make mats of seasoned and colored bamboo strips according to pattern or design. Soak precut bamboo stakes in water to soften and bleach them etc. It is along term qualification.
5	Body/bodies which will award the qualification	Directorate General of Training (DGT).
6	Body which will accredit providers to offer courses leading to the qualification	Directorate General of Training (DGT) accredits the Training providers (ITIs/ NSTIs/MSTIs/BTCs/BTPs / Industries / Establishments).
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	Yes. The accreditation/ affiliation norms and any amendments made from time to time are available on DGT web portal.
8	Occupation(s) to which the qualification gives access	<ul style="list-style-type: none"> • 7317.0800 – Mat Weaver, Bamboo • 7317.0300 – Furniture Maker, Bamboo • 7317.0700 – Basket Maker • 7317.1100 – Chick Maker • 7317.1200 – Khas Thatti Maker
9	Job description of the occupation	The individual makesbamboo furniture by sizing and dressing bamboo pieces, drilling holes, building frames and body with strengthening pieces. Studies pattern, size or design of furniture to be made; collects

		seasoned bamboo stakes (rods) them and soaks in water; removes stakes from bath when soft and cuts and removes thin splints and splits them into strips of desired size and thickness with selects cut bamboo into specific sizes, drills holes where necessary and sets them into required pattern etc.		
10	Licensing requirements	NOT REQUIRED		
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	NOT APPLICABLE		
12	Level of the qualification in the NSQF	Level 3		
13	Anticipated volume of training/learning required to complete the qualification	Sl. No.	Course Element	Notional Training Hours
		1	Professional Skill (Trade Practical)	1200
		2	Professional Knowledge (Trade Theory)	240
		3	Employability Skills	160
			Total	1600
14	Indicative list of training tools required to deliver this qualification	As per Annexure-I of curriculum.		
15	Entry requirements and/or recommendations and minimum age	Passed 8 th class examination. Minimum age 14 years as on first day of academic session		
16	Progression from the qualification (Please show	An Individual can proceed for:		

	Professional and academic progression)	Professional <ul style="list-style-type: none"> • Craftsman • Senior Craftsman • Supervisor • Manager • Entrepreneur 	Technical / Academic [] ATS CITS Diploma/ Advance Diploma (Vocational)	
17	Arrangements for the Recognition of Prior learning (RPL)	<ul style="list-style-type: none"> • Yes (For more details refer “Guidelines for Private candidate” in DGT website MIS portal). 		
18	International comparability where known (research evidence to be provided)	-		
19	Date of planned review of the qualification.	5 Yrs. from the Date of Approval		
20	Formal structure of the qualification			
	Mandatory components			
	Title of component and identification code/NOSs/ Learning Outcomes	Estimated size (learning hours)		Level
		Skills	Knowledge	
TRADE SPECIFIC				
(i)	Identify bamboo items, safety tools & explain various Bamboo resource generation techniques following safety precaution.	60	12	3
(ii)	Identify and operate various hand tools used in Bamboo Technology.	60	12	3
(iii)	Identify, plan & apply preservatives, dyes, smoke treatment & chemical treatment process to preserve bamboo items.	30	6	3
(iv)	Operate various bamboo processing machineries and carry out their	150	30	3

	maintenance.			
(v)	Operate Glue Mixing machine & weaving machine for fixing different parts of bamboo products.	60	12	3
(vi)	Bend bamboo strips, Slivers & bamboo pole using blow lamp.	30	6	3
(vii)	Troubleshoot & perform maintenance procedure of different machines used in Bamboo works.	60	12	3
(viii)	Carry out different process of seasoning of bamboos & various propagation methods.	180	36	3
(ix)	Identify & select appropriate bamboo species for different industrial Handicraft products.	30	6	3
(x)	Design various gift items, stationery Item by free hand drawing.	30	6	3
(xi)	Identify different computer parts; boot & operate basic functions of computer.	30	6	3
(xii)	Install & utilize AutoCAD software to prepare different shapes and design of the products.	60	12	3
(xiii)	Make various decorative products by designing innovative gift items, stationary items models/ prototype.	30	6	3
(xiv)	Select & apply different process of bending & joints in different sections like furniture, handicraft & housing etc.	180	36	3
(xv)	Apply different techniques and process of making various kinds of bamboo furniture.	90	18	3
(xvi)	Use Jigs & fixture to make uniform size & reduce production cost.	30	6	3
(xvii)	Identify finishing materials & apply different methods of finishing of bamboo products.	30	6	3
(xviii)	Identify quality products as per market demand for production as per requirement and estimate the cost.	60	12	3
CORE SKILL				

EMPLOYABILITY SKILLS				
(i)	Apply safe working practices.	-	20	3
(ii)	Comply with environment regulation and housekeeping.		20	3
(iii)	Interpret & use formal and technical communication.		20	3
(iv)	Apply the concept in productivity & quality management in day to day work to improve productivity & quality.		20	3
(v)	List and interpret various acts of labour welfare legislation.		20	3
(vi)	Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.		20	3
(vii)	Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.		20	3
(viii)	Utilize basic computer applications and internet to take benefit of IT developments in the industry.		20	3
	Total		1600	

SECTION 1
ASSESSMENT

21	<p>Body/Bodies which will carry out assessment: Controller of Examinations, DGT</p>
22	<p>How will RPL assessment be managed and who will carry it out? DGT will carry out the RPL assessment following the below mentioned eligibility criteria for Trainee: Applicants aspiring to appear as Private Candidates in the AITT under CTS for award of NTC, have been categorized based on their educational background and experience. Subsequently 'Private Candidates' may be admitted under one of the following categories. Category wise 'eligibility criteria' for appearing as 'Private Candidate' in AITT under CTS has been listed below: Category I: Ex-trainees (successful pass-outs) of ITI A. Ex-trainees of ITI who already possess NTC in one of the trades under CTS, are eligible for applying as Private candidate for an allied trade, provided he/ she fulfils all the conditions regarding educational qualification etc. prescribed for that allied trade. (Refer Annexure III for list of allied trades) B. In addition, the applicant should possess minimum of 1 year experience (as on date of submission of application) post the date of AITT result declaration in the desired allied trade in establishments implementing Apprenticeship Training Scheme (ATS)/ establishments registered under the Apprenticeship portal or registered MSMEs or Entities registered with any government/local authorities / shops covered under Factories Act 1948 and Shops and Establishments Act applicable for the concerned State. II. Category II: 'Ex-trainees (successful pass-outs) and current trainees under CoE scheme A. The applicant should have the minimum prescribed entry qualification and should fulfil eligibility criteria for the desired trade under CTS, in which he/she intends to appear for AITT as Private Candidate. Mapping of CoE trades, with that of regular CTS trades is provided in Annexure IV. CoE candidates must register as 'Private Candidate' under CTS in the relevant/mapped CTS trade only. B. There should be a minimum gap of 1 year between successful completions of CoE training i.e. from the date of result declaration to the date of submission of application for 'Private Candidate' certification. C. During this gap of 1 year, the candidate must have undergone Industry training or gained experience in desired trade in establishments</p>

	<p>implementing Apprenticeship Training Scheme (ATS)/ establishments registered under the Apprenticeship portal or registered MSMEs or Entities registered with any government/local authorities / shops covered under Factories Act 1948 and Shops and Establishments Act applicable for the concerned State.</p> <p>Category III: SCVT Candidates (admitted till August 2018 session)</p> <p>A. No special provisions have been made for SCVT Trainees to enrol as 'Private Candidate'. Going forward, SCVT trainees have been granted equivalence vide G.S.R 186(E) dated 2nd March 2017 for undergoing apprenticeship training under the Apprentices Act 1961 to obtain 'NAC' (Refer Annexure V).</p> <p>B. Only for SCVT trainees admitted till August 2018 batch, provision has been made for obtaining NTC by appearing in AITT under 'Private Candidate'. Such trainees will continue to be governed by old guidelines for 'Private Candidate'.</p> <p>Category IV: Other Candidates (candidate not falling in any of the above 3 categories, including SCVT trainees enrolled from admission session 2019 onwards)</p> <p>A. The applicant should have the minimum prescribed entry qualification and should fulfil eligibility criteria for the relevant trade under CTS, in which he/she desires to appear for AITT as Private Candidate.</p> <p>B. Applicant should be minimum 21 years of age on the date of submission of application. There is no upper age limit.</p> <p>C. The applicant should possess minimum of 3 years' experience (on the date of submission of application) in the relevant trade in establishments implementing Apprenticeship Training Scheme (ATS)/ establishments registered under the Apprenticeship portal or registered MSMEs or Entities registered with any government/local authorities / shops covered under Factories Act 1948 and Shops and Establishments Act applicable for the concerned State.</p> <p>For updated information please refer to DGT web portal.</p>
<p>23</p>	<p>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</p> <p>(1) Assessment process: The assessment for the qualification is carried out by conducting formative assessments, and end of year examinations (Summative). The</p>

formative assessments in respect of each Learning Outcome for practical and related theory are conducted by the concerned instructors for evaluating the knowledge and skill acquired by trainees and the behavioural transformation of the trainees. This formative assessment is primarily carried out by collecting evidence of competence gained by the trainees by evaluating them at work based on assessment criteria, asking questions and initiating formative discussions to assess understanding and by evaluating records and reports. Summative assessment is carried out by All India Trade Test on Trade Theory, Trade practical and Employability Skills. The question papers for the theory Examinations contain objective type questions.

The marking pattern and distribution of marks for the qualification are as under:

Marking Pattern			
Sl. No.	Type of Assessment	Subject for the Trade Test	Marks
1	Summative Assessment	Practical	250
2		Trade Theory	100
3		Employability Skills	50
6	Formative assessment based on Learning Outcomes		200
TOTAL:			600

(2) Minimum pass marks:

The minimum pass percent for Trade Practical and Formative assessment is 60% & for all other subjects is 33%. There will be no Grace marks.

Testing and certifications for the course:

Controller of examinations, DGT carries out the assessment and issues National Trade Certificate (NTC) following the norms and guidelines issued by the Directorate from time to time.

Overall assessment strategy:

Assessment of the qualification evaluates trainees to show that they can integrate knowledge, skills and values for carrying out relevant tasks as per the defined learning outcomes and assessment criteria. The trainees may choose the preferred language for assessment. The underlying principle of assessment is fairness and transparency. While assessing the trainee, assessor is directed to assess as per the defined assessment criteria against the learning outcomes. The evidence of the competence acquired by the trainees can be obtained by conducting theory and practical examinations, observing the trainees at work, asking questions and initiating discussions to assess, understand and evaluate records and reports. The ultimate objective of the assessment is to assess the candidates as per the defined assessment criteria for the learning outcomes.

Specific Arrangements for assessment:

- Assessment is outcome-based.
- There are formative and summative assessments in Theory and Practical.
- Assessment is carried out in Trade theory, Trade Practical and Employability Skills.
- While Trade Theory and Trade Practical are used for assessing Trade-related jobs and Employability skills is used to test the communication, professional language, leadership, entrepreneurship and team-work abilities of the trainee.
- In addition to demonstration of theory and practical knowledge, trainees get a chance to present total personality.

Quality assurance activities:

Question papers are set by external paper setters/ software generated.
 Evaluation of Theory Examinations in Trade and Employability Skill is done by third-party agency.
 Trade Practical is examined by External Examiner.

24. Assessment evidences

Title of Component: Formative Assessment Breakup

(on half yearly average of the learning assessment covered)

Means of assessment

Assessment will be evidence based comprising the following for each Learning Outcome:

Serial	Terminal Competency	Maximum
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NSQF QUALIFICATION FILEApproved in 24th NSQC, dated: 27th Feb, 2020*Bamboo Works*

No.		Weightage (%)
1	Safety consciousness	15
2	Workplace hygiene	5
3	Attendance/ Punctuality	10
4	Ability to follow Manuals/ Written instructions	5
5	Application of Knowledge	10
6	Skills to handle tools / equipment/ Instruments/ Devices	10
7	Economical use of materials	5
8	Working Strategy	10
9	Quality in workmanship/ Performance	15
10	VIVA	15
	Total Maximum Weightage (%)	100

Pass/Fail

The minimum pass percentage is 60% marks for formative assessment.

LEARNING OUTCOME WITH ASSESSMENT CRITERIA:

LEARNING OUTCOME (TRADE SPECIFIC)	
LEARNING OUTCOME	ASSESSMENT CRITERIA
1. Identify bamboo items, safety tools & explain various Bamboo resource generation techniques following safety precaution.	Demonstrate workshop safety & discipline.
	Use of tools safety and workshop safety.
	Identify different types of bamboo items.
	Demonstrate via field visit/ Harvesting Practice.
	Demonstrate modern utilization of bamboo items by showing visual aids.
2. Identify and operate various hand tools used in Bamboo Technology.	Identify various kinds of hand tools/machine tools used in bamboo works industry.
	Maintain the hand tools/machine tools and follow the safety /precautionary guidelines.
	Identify measuring tools & use conversion tables for measurement.
	Check for dimensional accuracy.
	Plan and select material and machine for drill holes to make observing safety points.
	Perform hand sawing/ drilling/ skinning/filing process.
	Mark the job as per drawing.
	Demonstrate pattern making by using blow lamp and its precautions.
3. Identify, plan & apply preservatives, dyes, smoke treatment & chemical treatment process to preserve bamboo items.	Identify various preservatives/dyes used to preserve the bamboos/bamboo products.
	Perform finishing of the surface of bamboo product as per requirement and arrange required items and tools.
	Select material and inspect visually for defects.
	Explain use of Borax/ Boric Acid in preservation.
	Demonstrate smoke chamber /other Chemical Process of preservation.
	Perform Traditional processes of preservation.
	Dye the bamboo products utilizing various chemical/ vegetative dyes.
4. Operate various	Plan and select the job and set up machine accessories at

bamboo processing machineries and carry out their maintenance.	position to perform desired operation.
	Set the job and perform desired operation with proper adjustment of table, guide, fence and blade guard.
	Operate Cross Cutting machine & perform oiling/ lubrication including preventive maintenance of the machine.
	Operate Radial splitting Machine/ Automatic splitting Machine/ knot removing machine according to the marking following safety norms
	Troubleshoot & maintain the Radial splitting Machine/ Automatic splitting Machine/ knot removing machine
	Polish /oil /lubricated different machines like manual slivering machine/ round stick machine for proper functioning.
	Operate & maintain electric drill machine/ 2 side / 4 side machine planer.
	Perform desired operation and check the correctness as per drawing.
	Operate & troubleshoot Hydraulic Press Machine/ Resin Applicator machine.
5. Operate Glue Mixing machine & weaving machine for fixing different parts of bamboo products.	Operate & maintain the Glue Mixing machine / DD Saw machine
	Operate & maintain weaving Machine
	Avoid waste and plan for reuse/ dispose of the unused items.
6. Bend bamboo strips, Slivers & bamboo pole using blow lamp.	Study the drawing and make a plan for making desired pattern.
	Mark the work as per dimension of the drawing.
	Make pattern, using blow torch and explain its precautions.
	Bend bamboo strips/bamboo poles using blow lamp.
	Check for dimensional accuracy of the bamboo product
7. Troubleshoot & perform maintenance procedure of different machines used in Bamboo works.	Clean & maintain machine parts by oiling/greasing/lubricating.
	Identify basic faults and trouble shoot them
	Explain different procedures of maintenance of machines
8. Carry out different	Explain Anatomical properties/ Chemical properties/ Physical/

process of seasoning of bamboos & various propagation methods.	Mechanical properties of bamboos
	Demonstrate various bamboo propagation methods.
	Perform Air seasoning/ Kiln seasoning/ chemical seasoning
	Trace seasoning defects and take remedial action
	Explain Gross anatomy-Parechyma/ Vascular bundles/fibres.
9. Identify & select appropriate bamboo species for different industrial handicraft products.	Identify bamboo species as per job requirement at practical field.
	Select appropriate bamboo species as per requirement of the bamboo product.
	Utilize various bamboo species for the formation of different bamboo handicrafts.
10. Design various gift items, stationery Item by free hand drawing.	Demonstrate free hand drawing&mark layout as per drawing.
	Draw various gift items/stationery Item.
	Plan required steps of operation to produce the gift/stationary item.
	Arrange required materials, tools and machineries for smooth performance of the operations.
11. Identify different computer parts; boot & operate basic functions of computer.	Boot the Computer/ Open Windows/ menus/use mouse.
	Create a directory in Windows.
	Create a File/ Folder
	Use my documents.
	Use start menu for opening an application.
	Change control panel settings for display
	Familiarize with Key Board and other computer components.
12. Install & utilize AutoCAD software to prepare different shapes and design of the products.	Install AutoCad Software.
	Identify various tools of Menu bar.
	Select & use various tools of Menu bar.
	Use AutoCAD pull down menu
	Apply User Coordinate System Icon
	Use Command Line / Command windows
13. Make various decorative products by designing innovative gift items, stationary items models/ prototype.	Design intervention on new innovative products.
	Make different gift items/stationery Item
	Make Bamboo Models / Prototype/ mock.
	Select Marketable Product.

14. Select & apply different process of bending & joints in different sections like furniture, handicraft & housing etc	Choose exact type of joint to employ and arrange materials, tools and equipments to perform the operation.
	Construct tongue and groove/ male and female joint/ Bolt fastening joint/Overlapping joint/U-shape joint/ Horizontal joint/ Vertical joint etc.
	Assemble different parts and check for correctness, strength and finishing
	Make a design of Gift item and bamboo jewelleryes / ornaments
	Make Bamboo bags.
	Make tea coaster/ bamboo bags etc. in workshop with the help of machines and hand tools.
	Identify & select various type of furniture as per requirement.
	Draw the Neat sketch of furniture
	Demonstrate different material used in furniture making
	Make Bamboo Mats and Blinds.
	Make Bamboo Mats / Bamboo Blinds by using Weaving Machine / manually.
15. Apply different techniques and process of making various kinds of bamboo furniture.	Apply appropriate Techniques for making furniture.
	Make Sofa set/Chair/ Table/Bed Beach & Garden/Dining chair/Wall Chair/Swing/Relaxing Chair/Centre Table.
	Select raw material for bamboo houses.
	Make prototype houses.
	Preserve & use bamboo for structural purposes - Code of practice.
16. Use Jigs & fixture to make uniform size & reduce production cost.	Identify & select materials for making jigs & fixtures
	Make various jig & fixtures as per requirement
	Make different products using jigs & fixtures.
	Make various moulds for making moulded Products.
17. Identify finishing materials & apply different methods of finishing of bamboo products.	Identify & select finishing tools/materials.
	Plan for finish the surface of bamboo product as per requirement and arrange required items and tools.
	Apply different techniques of finishing
	Final touch on the products using finishing materials.
18. Identify quality products as per	Collect sample according to Company sampling procedures.
	Measure samples for specified parameters according to company

market demand for production as per requirement and estimate the cost.	technical specifications.
	Estimate cost of production.

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LEARNING OUTCOME (CORE SKILL)	
LEARNING OUTCOME	ASSESSMENT CRITERIA
EMPLOYABILITY SKILLS	
1. Apply safe working practices	Follow and maintain procedures to achieve a safe working environment in line with occupational health

	and safety regulations and requirements and according to site policy.
	Recognize and report all unsafe situations according to site policy.
	Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures.
	Identify, handle and store / dispose off dangerous goods and substances according to site policy and procedures following safety regulations and requirements.
	Identify and observe site policies and procedures in regard to illness or accident.
	Identify safety alarms accurately.
	Report supervisor/ Competent of authority in the event of accident or sickness of any staff and record accident details correctly according to site accident/injury procedures.
	Identify and observe site evacuation procedures according to site policy.
	Identify Personal Protective Equipment (PPE) and use the same as per related working environment.
	Identify basic first aid and use them under different circumstances.
	Identify different fire extinguisher and use the same as per requirement.
2. Comply with environment regulation and housekeeping	Identify environmental pollution & contribute to the avoidance of instances of environmental pollution.
	Deploy environmental protection legislation & regulations
	Take opportunities to use energy and materials in an environmentally friendly manner.
	Avoid waste and dispose waste as per procedure
	Recognize different components of 5S and apply the same in the working environment.
3. Interpret & use formal and technical communication.	Obtain sources of information and recognize information.
	Use and draw up technical drawings and documents.
	Use documents and technical regulations and

	occupationally related provisions.
	Conduct appropriate and target oriented discussions with higher authority and within the team.
	Present facts and circumstances, possible solutions & use English special terminology.
	Resolve disputes within the team.
	Conduct written communication.
4. Apply the concept in productivity & quality management in day to day work to improve productivity & quality.	Explain the concept of productivity and apply during execution of job.
	Explain the concept of quality tools and apply during execution of job.
5. List and interpret various acts of labour welfare legislation.	Explain basic concept of labour welfare legislation, adhere to responsibilities and remain sensitive towards such laws.
	Knows benefits guaranteed under various acts.
6. Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.	Explain the concept of energy conservation, global warming, pollution and utilize the available resources optimally & remain sensitive to avoid environment pollution.
	Explain standard procedure for disposal of waste.
7. Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.	Explain personnel finance and entrepreneurship.
	Explain role of various schemes and institutes for self-employment i.e. DIC, SIDA, SISI, NSIC, SIDO, Idea for financing/ non-financing support agencies to familiarize with the policies/ programmes, procedure & the available scheme.
	Prepare a report to become an entrepreneur for submission to financial institutions.
8. Utilize basic computer applications and internet to take benefit of IT developments in	Explain the basic hardware of personal computer.
	Use common application software viz., word, excel, power point etc., in day to day work.
	Awareness about useful internet websites, search

the industry.	relevant information pertaining to the assigned tasks.
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SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: Bamboo Works			Level: 3
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<p>Requires limited range of activities, routine & predictable</p> <ul style="list-style-type: none"> Operate various bamboo processing machineries and carry out their maintenance. Bend bamboo strips, Slivers & bamboo pole using blow lamp. Troubleshoot & perform maintenance procedure of different machines used in Bamboo works. 	<p>In all the learning outcomes for example ‘Bend bamboo strips, Slivers & bamboo pole using blow lamp.’ and ‘Operate various bamboo processing machineries and carry out their maintenance.’, the learner will be required to choose appropriate products, equipments, procedures as per the requirement of the job. The above tasks require limited range of activities which are routine type & predictable to achieve the tolerance level and accuracy demanded as per the job.</p> <p>Thus the NSQF level as per this descriptor will be 3.</p>	3
Professional knowledge	Knowledge of Basic facts, process and principle applied in trade of employment	The learner is expected to possess the basic knowledge about selection of bamboo as per job	3

Title/Name of qualification/component: Bamboo Works		Level: 3	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
	<ul style="list-style-type: none"> • Various bamboo species and their utilization. • Design intervention on new innovative products. • Process of Weaving Bamboo Mats, • Process of making Bamboo Blinds. • Various methods of finishing techniques. 	<p>specification, free hand drawing of various items, different aspects of drawing. He/she should also know how to make model and mock up, different patterns of Mat and bamboo blinds,selection of Marketable Product, various finishing materials & there uses etc.</p> <p>The above knowledge possessed by the learner are the basic facts, process and principles applied in this trade of employment.</p> <p>Hence NSQF Level 3 is justified for this Descriptor.</p>	
Professional skill	<ul style="list-style-type: none"> • Carry out different process of seasoning of bamboos &various propagation methods. • Identify & select appropriate bamboo species for different industrial Handicraft products. • Design various gift items, stationery Item by free hand drawing. 	<p>The learner is expected to identify various anatomical, chemical, physical and mechanical properties of bamboos and carryout different processes of seasoning and propagation methods. He/she should be able to perform free hand drawing of various gift items, stationery items etc.</p> <p>In order to perform the above tasks the learner is</p>	3

Title/Name of qualification/component: Bamboo Works		Level: 3	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		<p>expected to recall & demonstrate practical skills which are routine & repetitive in narrow range of application.</p> <p>Hence NSQF Level 3 is justified for this descriptor.</p>	
Core skill	<p>Communication written and oral, with minimum required clarity</p> <ul style="list-style-type: none"> Interpret & use formal and technical communication. <p>Basic Arithmetic and algebraic principles</p> <ul style="list-style-type: none"> Explain science in the field of study including simple machine. <p>Understanding of social/political</p> <ul style="list-style-type: none"> Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth. 	<p>The learner is able to communicate orally & in written using simple English language, has active listening skills. Works as a team player and able to explain technical terms with minimum required clarity. The learner is able to perform basic mathematical calculations like addition, subtraction, multiplication etc. He/she is able to perform the job complying environment regulation and housekeeping by applying safe working practices. Maintains energy conservation, prevents global warming & pollution by optimally using available resources in day to day work.</p> <p>Hence NSQF Level 3 is justified for this</p>	3

Title/Name of qualification/component: Bamboo Works		Level: 3	
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		descriptor.	
Responsibility	<ul style="list-style-type: none"> • Perform Root pass welds in Weld single Vee butt joints on schedule 60 pipes and schedule 80 pipes in 6G positions by GTAW and intermediate and cover pass weld by SMAW. • Install & utilize AutoCAD software to prepare different shapes and design of the products. • Make various decorative products by designing innovative gift items, stationary items models/ prototype. • Select & apply different process of bending & joints in different sections like furniture, handicraft & housing etc. 	<p>The learner is expected to know the appropriate remedial action required for specific defect and thus is responsible for own work within defined limit. He/she is able to follow and perform work assigned to him/her and detect & resolve issues during execution. Thus the learner is responsible for own work. Also demonstrates possible solutions and agree tasks within the team. The learner is able to recognize & comply safe working practices under close supervision of the supervisor.</p> <p>Therefore NSQF Level 3 is justified for this descriptor.</p>	3

SECTION 3
EVIDENCE OF NEED

26	<p>What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?</p> <table border="1" data-bbox="339 557 1390 1704"> <thead> <tr> <th data-bbox="339 557 627 701">Basis</th> <th data-bbox="627 557 1390 701">In case of other Awarding Bodies (Institutes under Central Ministries and states departments)</th> </tr> </thead> <tbody> <tr> <td data-bbox="339 701 627 1081">Need of the qualification</td> <td data-bbox="627 701 1390 1081">Handicrafts & Carpets Sector has a significant presence of organized as well as unorganized skilled manpower requirement. This sector is poised to grow exponentially in the years to come and is highly labor intensive and there are many emerging trends in this sector. Hence the qualification has been designed keeping in view to cater to the ever-increasing demand of skilled manpower in consultation with stakeholders.</td> </tr> <tr> <td data-bbox="339 1081 627 1503">Industry Relevance</td> <td data-bbox="627 1081 1390 1503">The job role defined for the qualification is as per the National Classification of Occupations 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. Moreover, the training is imparted in ITIs/NSTIs/MSTIs/BTC/ BTPs/ Industries / Establishments etc. where such requirement is available. This justifies the qualification is very much relevant for industry.</td> </tr> <tr> <td data-bbox="339 1503 627 1632">Usage of the qualification</td> <td data-bbox="627 1503 1390 1632">The Proposed qualification will create skilled craftsman for various establishments in different Sectors.</td> </tr> <tr> <td data-bbox="339 1632 627 1704">Estimated uptake</td> <td data-bbox="627 1632 1390 1704">The present seating capacity is 26.</td> </tr> </tbody> </table>	Basis	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)	Need of the qualification	Handicrafts & Carpets Sector has a significant presence of organized as well as unorganized skilled manpower requirement. This sector is poised to grow exponentially in the years to come and is highly labor intensive and there are many emerging trends in this sector. Hence the qualification has been designed keeping in view to cater to the ever-increasing demand of skilled manpower in consultation with stakeholders.	Industry Relevance	The job role defined for the qualification is as per the National Classification of Occupations 2015 which is developed by Employment Directorate under the ministry of Labour and Employment in collaboration with different industry partners and as per ILO guidelines. Moreover, the training is imparted in ITIs/NSTIs/MSTIs/BTC/ BTPs/ Industries / Establishments etc. where such requirement is available. This justifies the qualification is very much relevant for industry.	Usage of the qualification	The Proposed qualification will create skilled craftsman for various establishments in different Sectors.	Estimated uptake	The present seating capacity is 26.
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27	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences.</p> <p>The qualification originally designed for Craftsman Training Scheme is in existence for many years and approved by DGT (Regulatory Body) under Ministry of Skill Development and Entrepreneurship, Govt. of India.</p>										

28	<p>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification</p> <p>The qualification is originally designed and approved by DGT for the Craftsman Training Scheme and is in existence for many years. No such duplicate qualification of same duration and competencies exists.</p>
29	<p>What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here</p> <ul style="list-style-type: none"> • The research wing of CSTARI & DGT reviews and updates the qualification, in consultation with industries and other stakeholders, on a regular basis by conducting trade committee meetings. • DGT will monitor any duplicity by comparing existing qualifications with upcoming ones in the National Qualifications Register (NQR) and relevant sectors.

SECTION 4
EVIDENCE OF PROGRESSION

30 **What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector? Show the career map here to reflect the clear progression**

On completion of the training the trainee will have an opportunity to move in vertical/horizontal pathways to promote to higher designations. The learner can further undergo other specialised courses to excel in the relevant field.

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    graph LR
      A[Craftsman] --> B[Senior Craftsman]
      B --> C[Supervisor]
      C --> D[Manager]
      A --> E[Entrepreneur]
      B --> E
      C --> E
      D --> E
  
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