



Model Curriculum

QP Name: Bamboo Work Artisan

QP Code: HCS/Q8702

QP Version: 3.0

NSQF Level: 3

Model Curriculum Version: 1.0

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Table of Contents

Training Parameters.....	3
Program Overview.....	4
Training Outcomes.....	4
Compulsory Modules.....	4
Module Details	6
Module Name 1:Introduction to Handicrafts (Bamboo Handicrafts) Industry in India.....	6
Module Name 2: Coordinate with colleagues and work as a team.....	7
Module Name 3: Maintain safe and healthy work environment.....	8
Module Name 4: Maintain personal hygiene.....	6
Module Name 5: DGT/VSQ/N0102: Employability Skills (60 Hours).....	12
Module Name 6: Carry out preparation of bamboo slivers.....	7
Module Name 7: Carry out weaving & twining of bamboo slivers to achieve the final product as per requirement.....	8
Module Name 8: Carry out finishing, varnishing, drying & storage of bamboo basket.....	10
Module Name 9: Contribute to achieve quality bamboo basket making.....	11
Module Name 10: Carry out basic pre-loom operations: Denting and attaching the warp on the loom.....	8
Module Name 11: Carry out basic weaving operations: Shedding/ Picking/ Battening to weave mats comprising of basic weaves- Plain and Twill using hand operated loom.....	10
Module Name 12: Contribute to achieve quality bamboo mat weaving.....	11
Module Name 13: Carry out cutting & processing of materials as per given size & shape.....	10
Module Name 14: Carry out assembling different materials.....	11
Module Name 15: Contribute to achieve quality bamboo utility handicraft assembling.....	8
Annexure	15
Trainer Requirements	15
Assessor Requirements	16
Assessment Strategy	16
Glossary	17
Acronyms and Abbreviations	17

Training Parameters

Sector	Handicrafts and Carpet
Sub-Sector	Handicrafts (Bamboo Handicrafts)
Occupation	Stitching, Weaving, Making and Finishing Handicrafts(Bamboo)
Country	India
NSQF Level	3
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7317.0700
Minimum Educational Qualification and Experience	<p>Ability to read and write with 5 year relevant experience OR 5th grade pass with 5 year relevant experience OR 8th grade pass with 1 year of relevant experience OR Grade 8 pass and pursuing continuous schooling in regular school with vocational subject OR Previous relevant Qualification of NSQF Level 2 with 1 year of relevant experience</p>
Pre-Requisite License or Training	NA
Minimum Job Entry Age	16 Years
Last Reviewed On	24/03/2022
Next Review Date	27/01/2025
NSQC Approval Date	24/03/2022
QP Version	3.0
Model Curriculum Creation Date	24/03/2022
Model Curriculum Valid Up to Date	27/01/2025
Model Curriculum Version	1.0
Minimum Duration of the Course	1230
Maximum Duration of the Course	1590 with OJT

Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Introduction to Handicrafts (Bamboo Handicrafts) Industry in India
- Coordinate with colleagues and work as a team
- Maintain Safe and Healthy Work Environment
- Maintain Personal Hygiene
- Discuss employability skill
- Carry out preparation of bamboo slivers
- Carry out weaving & twining of bamboo slivers to achieve the final product as per requirement
- Carry out finishing, varnishing, drying & storage of bamboo basket
- Contribute to achieve quality bamboo basket making
- Carry out basic pre-loom operations: Denting and attaching the warp on the loom
- Carry out basic weaving operations: Shedding/ Picking/ Battening to weave mats comprising of basic weaves- Plain and Twill using hand operated loom
- Contribute to achieve quality in bamboo mat weaving
- Carry out cutting & processing of materials as per given size & shape
- Carry out assembling different materials
- Contribute to achieve quality bamboo utility handicraft assembling

Compulsory Modules

The table lists the modules, their duration and mode of delivery.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
HCS/N9901: Coordinate with colleagues and work as a team NOS Version No. 2.0 NSQF Level 3	20:00	40:00	NA	NA	60:00
Module 1 Introduction to Handicrafts (Bamboo Handicrafts) Industry in India	10:00	00:00	NA	NA	10:00
Module 2: Coordinate with	10:00	40:00	NA	NA	50:00

colleagues and work as a team					
HCS/N9902: Maintain Safe and Healthy Work Environment NOS Version No. 2.0 NSQF Level 3	05:00	55:00	NA	NA	60:00
Module 3: Maintain Safe and Healthy Work Environment	05:00	55:00	NA	NA	60:00
HCS/N9903: Maintain Personal Hygiene NOS Version No. 2.0 NSQF Level 3	05:00	55:00	NA	NA	60:00
Module 4: Maintain Personal Hygiene	05:00	55:00	NA	NA	60:00
DGT/VSQ/N0102: Employability Skills NOS Version No. 1.0 NSQF Level 4	20:00	40:00	NA	NA	60:00
Module 5 Employability Skills	20:00	40:00	NA	NA	60:00
Total Duration	50:00	190:00	NA	00:00	240:00

Elective 1

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
HCS/N8711: Carry out preparation of bamboo slivers NOS Version No. 2.0 NSQF Level 3	40:00	50:00	NA	NA	90:00
Module 6: Carry out preparation of	40:00	50:00	NA	NA	90:00

bamboo slivers					
HCS/N8712: Carry out weaving & twining of bamboo slivers to achieve the final product as per requirement NOS Version No. 2.0 NSQF Level 3	50:00	100:00	NA	NA	150:00
Module 7: Carry out weaving & twining of bamboo slivers to achieve the final product as per requirement	50:00	100:00	NA	NA	150:00
HCS/N8713: Carry out finishing, varnishing, drying & storage of bamboo basket NOS Version No. 2.0 NSQF Level 3	05:00	55:00	NA	NA	60:00
Module 8: Carry out finishing, varnishing, drying & storage of bamboo basket	05:00	55:00	NA	NA	60:00
HCS/N8714: Contribute to achieve quality	05:00	25:00	NA	NA	30:00

bamboo basket making NOS Version No. 2.0 NSQF Level 3					
Module 9: Contribute to achieve quality bamboo basket making	05:00	25:00	NA	NA	30:00
Total Duration	100:00	230:00	NA	120:00	330

Elective 2

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
HCS/N8705: Carry out basic pre-loom operations: Denting and attaching the warp on the loom NOS Version No. 2.0 NSQF Level 3	60:00	120:00	NA	NA	180:00
Module 10: Carry out basic pre-loom operations: Denting and attaching the warp on the loom	60:00	120:00	NA	NA	180:00
HCS/N8706: Carry out basic weaving operations: Shedding/ Picking/	30:00	90:00	NA	NA	120:00

Battening to weave mats comprising of basic weaves- Plain and Twill using hand operated loom NOS Version No. 2.0 NSQF Level 3					
Module 11: Carry out basic weaving operations: Shedding/ Picking/ Battening to weave mats comprising of basic weaves- Plain and Twill using hand operated loom	30:00	90:00	NA	NA	120:00
HCS/N8707: Contribute to achieve quality in bamboo mat weaving NOS Version No. 2.0 NSQF Level 3	10:00	20:00	NA	NA	30:00
Module 12: Contribute to achieve quality in bamboo mat weaving	10:00	20:00	NA	NA	30:00
Total Duration	100:00	230:00	NA	120:00	330

Elective 3

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
HCS/N8715: Carry out cutting & processing of materials as per given size & shape NOS Version No. 2.0 NSQF Level 3	60:00	120:00	NA	NA	180:00
Module 13: Carry out cutting & processing of materials as per given size & shape	60:00	120:00	NA	NA	180:00
HCS/N8716: Carry out assembling different materials NOS Version No. 2.0 NSQF Level 3	30:00	90:00	NA	NA	120:00
Module 14: Carry out assembling different materials	30:00	90:00	NA	NA	120:00
HCS/N8717: Contribute to achieve quality bamboo utility handicraft assembling NOS Version No. 2.0 NSQF Level 3	10:00	20:00	NA	NA	30:00
Module 15: Contribute to achieve quality bamboo utility	10:00	20:00	NA	NA	30:00

handicraft assembling					
Total Duration	100:00	230:00	NA	120:00	330

Module Details

Module Name 1: Introduction to Handicrafts (Bamboo Handicrafts) Industry in India

Mapped to Bridge Module

Terminal Outcomes:

- outline the Handicrafts (Bamboo Handicrafts) industry in India
- discuss the types of tools and equipment used in the Handicrafts (Bamboo Handicrafts) industry
- identify the different physical properties of Handicrafts (Bamboo Handicrafts)

<i>Duration: <10:00></i>	<i>Duration: <00:00></i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • list different types of Handicrafts (Bamboo Handicrafts) manufactured in India. • recall the states that are the hub for Handicrafts (Bamboo Handicrafts) in India • discuss the importance of using tools and equipment based on physical and operational properties of Handicrafts (Bamboo Handicrafts) • explain the career opportunities available in the Handicrafts (Bamboo Handicrafts) sector 	
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	

Module Name 2: Coordinate with colleagues and work as a team

Mapped to HCS/N9901, V6.0

Terminal Outcomes:

- demonstrate how to interact with supervisor
- work as a team by coordinating with colleagues within and outside the department and include inputs on PwD & Gender Sensitisation
- explain reporting and documentation processes

<i>Duration: 10:00</i>	<i>Duration: 40:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • explain importance of complying with health, safety, gender and PwD related instructions applicable to workplace • discuss work output requirements, targets, performance indicators and incentives • explain importance of explaining delivering quality work on time and reporting any grievances, production defects any potential hazards. • discuss importance of training sensitization programs for gender, and PwD awareness organized at workplace • discuss repair schedule, and clarify doubts on design, usage of materials and tools, quality and standards, compliance, etc. • explain ways to communicate politely and in a disciplined behaviour • explain gender equality and how to accommodate employees with disabilities • discuss company’s policies on preferred language, incentives, quality standards, personnel management, reporting and escalation matrix policy. 	<ul style="list-style-type: none"> • demonstrate mock drills/evacuation procedures • show how to do documentation
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
Basic Stationery	

Module Name 3: Maintain safe and healthy work environment

Mapped to HCS/N9902, V6.0

Terminal Outcomes:

- follow safety procedures and practices.
- achieve safety standards.

<i>Duration: 05:00</i>	<i>Duration: 55:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • explain importance of carrying out work functions in accordance with organizational standards, greening solutions, procedures, policies, legislation and regulations • discuss importance of inculcating sustainable consumption practices • explain why it is important to comply with safety procedures while on work to prevent accidents • list ways to minimize environmental damage • explain importance of reporting accidents and incidents if any • list ways to achieve effective and green workplace • discuss company’s policies on work safety and occupational hazard management • list accidental risks to workers • 	<ul style="list-style-type: none"> • demonstrate how to handle materials, chemicals and tools • demonstrate material handling procedure to control material and personal damage • demonstrate waste disposal method • demonstrate evacuation procedure • demonstrate ways to maintain work area safe and secure • show how to handle chemical in a safe manner • demonstrate usage of protective gears
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
Tools and Equipment, PPE kit	

Module Name 4: Maintain personal hygiene

Mapped to HCS/N9903, V3.0

Terminal Outcomes:

- adopt healthy work practices
- achieve work productivity while maintaining health

<i>Duration: 05:00</i>	<i>Duration: 55:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • explain importance of covering mouth and nose with a dust mask while working and wearing PPE while visiting different departments during production • discuss importance of sanitizing hands after coming back from production unit • explain why it is important to get preventive health check-ups • discuss the SOPs to be followed while dealing with blisters, scratches, etc. • discuss company’s policies on personal health and occupational hazard management • list health risks to workers at workplace • discuss ways to minimise pollution at the workplace 	<ul style="list-style-type: none"> • demonstrate company’s evacuation procedure • demonstrate safe methods of waste disposal • demonstrate how to provide first-aid
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
PPE and Basic Stationery	

Module Name 5: DGT/VSQ/N0102Employability Skills

Mapped to DGT/VSQ/N0102, V1.0

Terminal Outcomes:

- introduction to employability skills
- constitutional values - citizenship
- becoming a professional in the 21st century
- basic english skills
- career development & goal setting
- communication skills
- diversity & inclusion
- financial and legal literacy
- essential digital skills
- entrepreneurship
- customer service
- getting ready for apprenticeship & jobs

<i>Duration: 20:00</i>	<i>Duration: 40:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • discuss employability skills required for jobs in various industries • explain ways to explore learning and employability portals • discuss the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc. • explain the significance of 21st Century Skills for employment • explain how to read and understand routine information, notes, instructions, mails, letters etc. written in English • list the difference between job and career • communicate and behave appropriately with all genders and PwD • discuss how to escalate any issues related to sexual harassment at workplace according to POSH Act • list common components of salary and compute income, expenses, taxes, investments etc • discuss relevant rights and laws and use legal aids to fight against legal exploitation • identify and list different types of Entrepreneurship and Enterprises and 	<ul style="list-style-type: none"> • demonstrate how to follow environmentally sustainable practices • roleplay the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life • practice the use basic English for everyday conversation in different contexts, in person and over the telephone • write short messages, notes, letters, e-mails etc. in English • prepare a sample career development plan with short- and long-term goals, based on aptitude • practice following verbal and non-verbal communication etiquette and active listening techniques in various settings • roleplay how to work collaboratively with others in a team • roleplay how to escalate any issues related to sexual harassment at workplace according to POSH Act • show how to select financial institutions, products and services as per requirement

<p>assess opportunities for potential business through research</p> <ul style="list-style-type: none"> • identify and list sources of funding, anticipate, and mitigate any financial/legal hurdles for the potential business opportunity • explain how to identify different types of customers • identify and list apprenticeship opportunities and register for it as per guidelines and requirements 	<ul style="list-style-type: none"> • practice how to carry out offline and online financial transactions, safely and securely • operate digital devices and carry out basic internet operations securely and safely • demonstrate the use of e- mail and social media platforms and virtual collaboration tools to work effectively • practice the use of basic features of word processor, spreadsheets, and presentations • develop a sample business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion • roleplay how to respond to customer requests and needs in a professional manner • show how to follow appropriate hygiene and grooming standards • create a sample professional Curriculum vitae (Résumé) • practice how to search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively • show how to apply to identified job openings using offline /online methods as per requirement • demonstrate how to answer questions politely, with clarity and confidence, during recruitment and selection
<p>Classroom Aids:</p>	
<p>Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster</p>	
<p>Tools, Equipment and Other Requirements</p>	
<p>PPE, Basic Stationary, digital devices as per the requirement.</p>	

Module Name 6: Carry out preparation of bamboo slivers

Mapped to HCS/N8711, V2.0

Terminal Outcomes:

- to make slivers from Bamboo Splits
- sorting & Drying of sliver
- bundling & Storage of slivers

<i>Duration: 40:00</i>	<i>Duration: 50:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • discuss the importance of appropriately use the hand saw • explain the importance of applying appropriate pressure on the bamboo split by using the hand saw to get the desired thickness of bamboo sliver • discuss the importance minimize and dispose of the waste materials in the approved manner • discuss the process of carrying out operations at a rate that maintains workflow • explain the benefits of leaving the work area safe and secure when work is complete • discuss the importance of maintaining the sharpness of handsaw • explain the way of identifying and segregating the usable and the disposable bamboo slivers based on width, thickness, strength, and color • discuss the importance of ensuring the uniform and complete drying • explain how to of minimizing and dispose of the waste materials in the approved manner • Bundling & Storage of slivers • explain the importance of taking an appropriate amount (weight/number of pieces as per market demand) of bamboo slivers from the bulk lot • discuss organization's policies, procedures, guidelines, and standards for quality • explain the quality systems and other processes practiced in the organization • explain the types of problems with quality and how to report them to appropriate people • describe the importance of complying with written instructions • discuss the reporting procedure in case of faults in own/ other processes • discuss whom to refer problems to when they are outside the limit of your authority • explain the organization's tools, templates, and processes for related operations in the production • importance of drying 	<ul style="list-style-type: none"> • demonstrate how to make the bamboo sliver by handling the bamboo split in the right manner • demonstrate how to make the bamboo sliver of the desired size from the splits • perform measuring & maintaining the uniformity of the sliver to be achieved • role-play of responding appropriately in case of any errors or faults in the bamboo and other operations • demonstrate taking safety precautions while drawing out the sliver • role-play of safe working practices and organizational procedures • role-play of undertaking precautions while storage to avoid moisture • show types of tools used • demonstrate the step-by-step process of making bamboo sliver • demonstrate how to correct positioning of the tool while making bamboo sliver • demonstrate common mistakes in the handling of tools affecting the quality
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
Hand saw, bamboo split, bamboo sliver, measuring tool, etc.	

Module Name 7: Carry out weaving & twining of bamboo slivers to achieve the final product as per requirement

Mapped to HCS/N8712, V2.0

Terminal Outcomes:

- 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

<i>Duration: 50:00</i>	<i>Duration: 100:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • discuss the benefits of taking specific type (based on width & length) of bamboo slivers suitable for preparing the two-dimensional base structure • explain how to plan out the base & fix it (specifically for round base) to obtain a rigid structure • explain the importance of ensuring that the base structure is fixed correctly before weaving bamboo slivers onto the base structure • discuss the benefits of asking questions to obtain more information on tasks when the instructions you have are unclear • discuss the importance of leaving the work area safe and secure when work is completely free from hazards • explain the benefits of taking appropriate slivers (based on width & length) for weaving according to shape, size, color & design pattern required in making a specific basketry product • explain how to analyze and maintain a uniform gap between the slivers as per the given specification • explain how to analyze and maintain the compactness of the sliver to ensure rigidity of the structure • explain how to analyze and carry out the bending wherever required according to the shape & size of the product to be achieved • explain how to analyze and maintain quality in giving shapes • explain the ways of ensuring proper handling in making the basketry product to avoid any breakage • discuss how to detect faults & defects • discuss how to solve & rectify the faults • explain the responsibilities under health, safety, and environmental legislation 	<ul style="list-style-type: none"> • demonstrate the process of making the two-dimensional bamboo sliver base according to the required design & pattern • demonstrate how to work according to the specified shape of the bamboo basket • perform checking that the materials to be used are free from faults • role-play of reporting any damaged work to the responsible person • demonstrate basic weaving in the given structure/frame • role-play of contacting the person in case of queries on procedure or products and for resolving issues related to defective machines, tools, and/or equipment • demonstrate the process for offering/ obtaining work-related assistance • demonstrate proper storage methods • demonstrate different types of defects/quality issues • carry out the process of weaving & twining in the definite pattern & design

- discuss the potential hazards associated with the machines and the safety precautions that must be taken
- describe a protocol to obtain more information on work-related tasks
- explain the details of the job role and responsibilities
- discuss work target and review mechanism with your supervisor
- discuss the method of obtaining/ giving feedback related to performance
- explain the importance of teamwork and harmonious working relationships
- discuss needs to sort slivers
- explain the need for drying
- explain the benefits of knowing types of slivers based on quality and quantity measurements
- discuss the common hazards in the work area and workplace procedures for dealing with them

Classroom Aids:

Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster

Tools, Equipment, and Other Requirements

Hand saw, bamboo split, bamboo sliver, measuring tool, weaving tools, etc.

Module Name 8: Carry out finishing, varnishing, drying & storage of bamboo basket

Mapped to HCS/N8713, V2.0

Terminal Outcomes:

- clipping the extra unwanted sliver from the basket & fix the edges
- drying of a bamboo basket
- varnishing & drying of a bamboo basket
- storage of bamboo basket products

<i>Duration: 05:00</i>	<i>Duration: 55:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • explain how to respond appropriately in case of any errors or faults in the bamboo and other operations • discuss why should an individual take precautions while placing the baskets in a dust-free area while drying Proper Varnishing & Drying of Bamboo Basket • explain the benefits of taking an appropriate amount of solution to be applied to the bamboo basketry product • discuss the importance of ensuring uniform and complete drying in sunlight to avoid stickiness • explain how to check & ensure the quality of the final product based on desired specifications • explain the importance of taking precautions while stacking the lot of basket avoiding any breakage • discuss quality systems and other processes practiced in the organization • explain the types of problems with quality and how to report them to appropriate people • discuss the importance of complying with written instructions • discuss whom to refer problems to when they are outside the limit of your authority • discuss the types of tools used • explain common mistakes in the handling of product affecting the finishing quality • explain the importance of even drying 	<ul style="list-style-type: none"> • demonstrate appropriate usage of the clipping tool • demonstrate cutting off the extra edges neatly to give the fine finished look • demonstrate how to analyze and apply glue to fix the edges • demonstrate handling the bamboo basket properly to avoid any breakage • perform disposal of the waste materials in the approved manner • carry out operations at a rate that maintains workflow • carry out effective drying of the basket to reduce the moisture content • demonstrate the ways of handling the brush or sprayer properly • perform the preparation of the solution of varnish by adding an appropriate amount of thinner • demonstrate the application of the solution on the bamboo basketry product uniformly • demonstrate handling of the basket properly while doing varnishing • demonstrate storing the lot of basket in a dry area avoiding direct contact with the ground • role-play of reporting procedure in case of faults in own/ other processes • demonstrate step by the step finishing process • perform preparation of varnish solution by added the right amount of thinner
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
Clipping tool, glue, brush/sprayer, etc.	

Module Name 9: Contribute to achieve quality bamboo basket making

Mapped to HCS/N8714, V2.0

Terminal Outcomes:

- contribute to achieving the product quality in Bamboo work

<i>Duration: 05:00</i>	<i>Duration: 25:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • explain the importance of taking the necessary action when materials do not conform to quality standards • explain how to report and replace identified faulty materials and parts which do not meet specifications • discuss how to report to the responsible person when the workflow of other production areas disrupts work • explain the benefits of the application of the allowed tolerances • discuss the ways of identification of faults and take appropriate action for rectification • explain the importance of maintaining the required productivity and quality levels 	<ul style="list-style-type: none"> • demonstrate identification and use of raw materials as per the specifications provided • demonstrate identification of modifiable defects and rework on them • carry out work safely and at a rate that maintains workflow • carry out quality checks at specified intervals according to instructions
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/SmartBoard, Marker, Duster	
Tools, Equipment, and Other Requirements	
Basic stationery, etc.	

Module Name 10: Carry out basic pre-loom operations: Denting and attaching the warp on the loom

Mapped to HCS/N8705, V2.0

Terminal Outcomes:

- prerequisite for undertaking pre-loom operations
- perform denting operation to carry out weaving of Bamboo mat
- attach the warp on the loom

<i>Duration: 60:00</i>	<i>Duration: 120:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • identify the parts of the hand operated loom and understand their functioning. • explain the given design which needs to be woven and the type of raw material that is required • discuss importance of product quality standards • discuss importance of minimising and disposing the waste material in approved manner and leaving work area in a safe manner • explain basic or plain drafting • discuss organisational policies, procedures, guidelines and standards for quality • discuss safe working practices, quality systems and other processes practiced in the organization • list and explain types of quality problems and reporting procedure • explain different parts of hand operated loom and their functioning • discuss loom dimensions and their specifications • state different types of tools and implements used in a loom • explain step by step process flow involved in pre-loom operations 	<ul style="list-style-type: none"> • demonstrate how to check material for weaving the fabric • perform drafting-drawing the warp threads into heald eyelets using the hook as per the given specifications • demonstrate how to detect, analyse and rectify faults while drafting • show how to knot the threads after drafting a set of ends to avoid mistakes in drafting • demonstrate how to draw warp threads in the warped beam through reed dents as per the given specifications • show how to maintain reed hook to ensure smooth functioning • perform the step of attaching the warp rolled beam on the loom, in order to keep the loom ready to commence weaving operations • show how to knot the warp threads uniformly to the rod attached to the breast basic/fabric beam • demonstrate how to maintain correct tension of the warp threads to prepare the loom for weaving
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
Loom, weaving tools, etc.	

Module Name 11: Carry out basic weaving operations: Shedding/ Picking/Battening to weave mats comprising of basic weaves- Plain and Twill using hand operated loom

Mapped to HCS/N8706, V2.0

Terminal Outcomes:

- prepare for weaving Bamboo mats
- identify and perform primary weaving operations
- identify and perform secondary weaving operations
- identify and perform post loom operations & finishing

<i>Duration: 30:00</i>	<i>Duration: 90:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • list tools required for processing • explain importance of checking materials for faults and quality • discuss importance of reducing wastage and maintaining quality while cutting to get desired finishing • discuss importance of reporting damaged work to concerned person • explain guidelines for storage and disposal of waste materials • state potential hazards associated with the machines 	<ul style="list-style-type: none"> • perform the selection process of coloured bamboo sticks for insertion as wefts • demonstrate how to check pedal to check shed formed is appropriate • perform primary weaving operation of shedding, picking, battening and beating • perform secondary weaving operations of take-up and let off • show how to trim the edges of woven mat evenly • show how to roll the mat, tag and store in a dry place
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
Loom, shedding, picking, battening and beating tools, etc.	

Module Name 12: Contribute to achieve quality in bamboo mat weaving

Mapped to HCS/N8707, V2.0

Terminal Outcomes:

- contribute towards achieving the quality in bamboo mat weaving

<i>Duration: 10:00</i>	<i>Duration: 20:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • discuss necessary actions to be taken when materials do not confirm to quality standards • list modifiable defects • discuss equipment operating procedures and manufacturer’s instructions • state different techniques and methods to detect faults • list types of basic weaves – plain and twill • state different types of defects • explain importance of marking and segregating rejects • discuss inspection methods and types of adjustments suitable for specific types of faults 	<ul style="list-style-type: none"> • perform rework on modifiable defects • perform quality checks to be performed at specified intervals • apply allowed tolerances • demonstrate how to make adjustments to ensure hand-woven mat matches the specification
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
Fault rectifying tools.	

Module Name 13: Carry out cutting & processing of materials as per given size & shape

Mapped to HCS/N8715, V2.0

Terminal Outcomes:

- marking on the material surface as per the given size & specification
- cutting based on the given marking

<i>Duration: 60:00</i>	<i>Duration: 120:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • discuss importance of marking material to the desired quality and specifications • explain use of rulers and marking templates • discuss importance of analysing and positioning materials appropriately to minimize waste • explain importance of inspecting cut pieces for quality and specifications • discuss importance of minimising waste • discuss safety precautions to be taken for cutting • discuss organization policies, procedures, guidelines and standards for quality • list safe working practices and organisational procedures • discuss basic dimensions and measurement techniques • explain different types of measuring and cutting templates and tools used • discuss importance of following greening solutions • discuss impact of gender sensitization at workplace 	<ul style="list-style-type: none"> • demonstrate how to handle material surface to be marked • perform the steps of checking markers before beginning to mark • show how to handle different cutting tools • demonstrate correct holding, cutting technique
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
Cutting and measuring tools	

Module Name 14: Carry out assembling different materials

Mapped to HCS/N8716, V2.0

Terminal Outcomes:

- preparing the points/surfaces for joining
- demonstrate positioning, placing, attaching and finishing

<i>Duration: 30:00</i>	<i>Duration: 90:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • list and explain joining techniques • list types of glue to be used for assembling • explain importance of drying surface for optimally for better adherence • discuss importance of inspection and ensuring that the assembled unit conforms to the given quality and specification • discuss organisations policies and procedures 	<ul style="list-style-type: none"> • demonstrate how to mark points/surface areas on two material pieces to be assembled • perform cleaning of the surfaces to be attached from any unwanted materials • demonstrate joining techniques • perform steps of applying adhesive on the marked area • show how to position two surfaces to be joined • show how to place and attach the parts correctly • perform the step of removing any unwanted fibres from the edges
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
Adhesive, glue, etc.	

Module Name 15: Contribute to achieve quality in bamboo utility handicraft assembling

Mapped to HCS/N8717, V2.0

Terminal Outcomes:

- contribute towards achieving the quality in bamboo utility handicraft assembling related operations

<i>Duration: 10:00</i>	<i>Duration: 20:00</i>
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • list materials required for assembling • discuss importance of taking necessary action when materials do not confirm to quality standards 	<ul style="list-style-type: none"> • demonstrate how to check modifiable defects • perform steps of quality check
Classroom Aids:	
Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster	
Tools, Equipment and Other Requirements	
<i>Mandatory Duration: <00:00></i>	<i>Recommended Duration: <00:00></i>
Module Name: On-the-Job Training	120:00
Location: On Site	
Terminal Outcomes	
<i>After successful completion of OJT candidate will become well trained in bamboo work.</i>	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Graduate with 6-12 Months of experience in handicraft industry	Stitching, Weaving, Making and Finishing Handicrafts(Bamboo)	6 months	Stitching, Weaving, Making and Finishing Handicrafts(Bamboo)	6 months	Stitching, Weaving, Making and Finishing Handicrafts(Bamboo)	NA

Trainer Certification	
Domain Certification	Platform Certification
Certificate for Job Role: "Bamboo Work Artisan" mapped to QP: "HCS/Q8702"	Certified for Job Role: "Trainer " mapped to QP: "MEP/Q0102; V:1.0"

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization <i><Specify the areas of specialization that are desirable.></i>	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
Graduate with 6-12 Months of experience in handicraft industry	Stitching, Weaving, Making and Finishing Handicrafts(Bamboo)	6 months	Stitching, Weaving, Making and Finishing Handicrafts(Bamboo)	6 months	Stitching, Weaving, Making and Finishing Handicrafts(Bamboo)	NA

Assessor Certification	
Domain Certification	Platform Certification
Certificate for Job Role: "Bamboo Work Artisan" mapped to QP: "HCS/Q8702"	Certified for Job Role: "Assessor " mapped to QP: "MEP/Q0104; V:1.0"

Assessment Strategy

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

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for each PC.
2. Each NOS will be assessed both for theoretical knowledge and practical
3. The assessment will be based on knowledge bank of questions created by the SSC.
4. Individual assessment agencies will create unique question papers for theory and skill practical part for each candidate at each examination/training centre
5. To pass the Qualification Pack, every trainee should score a minimum of 50% in every NOS
6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

Glossary

Term	Description
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
OJT(M)	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training onsite
OJT(R)	On-the-job training (Recommended); trainees are recommended to complete specified hours of training onsite
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psychomotor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training .
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module . A set of terminal outcomes help to achieve the training outcome.

Acronyms and Abbreviations

Term	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards