

Model Curriculum

1. Bamboo Mat Weaver

SECTOR: HANDICRAFTS AND CARPET
SUB-SECTOR: HANDICRAFTS (BAMBOO)
OCCUPATION: BAMBOO MAT WEAVER
REF ID: HCS/Q8702, V1.0
NSQF LEVEL: 3



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

HANDICRAFTS AND CARPET SECTOR SKILL COUNCIL

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: '**Bamboo Mat Weaver** No. '**HCS/ Q 8702 NSQF Level 3**

Date of Issuance: **June 29th, 2015**

Valid up to: **June 28th, 2017**

* Valid up to the next review date of the Qualification Pack



Authorised Signatory
(Handicrafts and Carpet Sector Skill Council)

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Bamboo Mat Weaver

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Bamboo Mat Weaver”, in the “Handicrafts and Carpet” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Bamboo Mat Weaver		
Qualification Pack Name & Reference ID. ID	HCS/Q8702, v1.0		
Version No.	1.0	Version Update Date	29/06/2015
Pre-requisites to Training	Basic literacy(reading and writing skills)		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Gain familiarity with the Bamboo Handicrafts sector: General introduction to various utilities of bamboo and its techniques. Identify with various weaving techniques. Distinguish between basics of fibre & yarn properties. • Explain the process of bamboo mat weaving using a hand operated loom: Learn to identify different parts of the loom and their functions. Identify descriptively the tools used in the different weaving processes. Learn appropriate maintenance of loom and tools for producing quality bamboo mats. • Perform the basic pre-loom operations of denting and attaching the warp loom: Understand the different pre- loom processes in weaving bamboo mats. Learn to perform the pre-loom process of drafting, denting& attaching the warp beam on the loom. • Identify of the hand operated loom, its parts and the tools involved in weaving bamboo mat: Effectively identify, select, use and maintain the hand operated loom and tools used for weaving carpets. Effectively identify the parts of the hand operated loom and understand their function. • Perform the basic weaving operations for weaving bamboo mat: Understand and implement the step by step process of weaving. Learn to operate hand operated loom to weave bamboo mat and post loom finishing. • Explain and assess the quality aspects of the woven bamboo mat: Understand the basics of quality product creation. Learn to identify defects and their possible rectifications. • Use soft skills to add edge to total learning, functioning& effectiveness: Understand work ethics and its importance towards building teamwork. Adopt good communication & interpersonal skills. Understand importance of living healthy life and practice general hygiene. Respect & practice general safety rules to manage work related stress efficiently. 		

This course encompasses 6 out of 6 NOS (National Occupational Standards) of “Bamboo Mat Weaver” Qualification Pack issued by “Handicrafts and Carpet Sector Skill Council”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Introduction</p> <p>Theory Duration (hh:mm) 10:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>Corresponding NOS Code Bridge Module</p>	<ul style="list-style-type: none"> Gain familiarity with bamboo, bamboo handicrafts and bamboo mat weaving. Understand the basics of fibre, yarn and its properties Understand the definition of weaving Understand plain and twill weaves Identify plain weave and its variations Understand the step by step process of making bamboo mats starting from bamboo 	<p>Notebooks, pens, pencils, white board, board marker, tools, samples of bamboo handicrafts, yarns and bamboo sticks.</p>
2	<p>Carry out basic pre-loom operations: Denting and attaching the warp on the loom</p> <p>Theory Duration (hh:mm) 15:00</p> <p>Practical Duration (hh:mm) 35:00</p> <p>Corresponding NOS Code HCS/N 8705</p>	<ul style="list-style-type: none"> Understand the different pre-loom processes in weaving bamboo mats Perform the pre-loom process of drafting Perform the pre-loom process of denting Perform the pre-loom process of attaching the warp beam on the loom Practice sessions for carrying out the preparatory processes. 	<p>Frame-Loom and implements; Tools reed hook, inch tape, yarns, winding machine, warping machine.</p>
3	<p>Carry out basic weaving operations: Shedding/ Picking/ Battening to weave mats comprising of basic weaves- Plain and Twill using hand operated loom</p> <p>Theory Duration (hh:mm) 15:00</p> <p>Practical Duration (hh:mm) 35:00</p> <p>Corresponding NOS Code HCS/N 8706</p>	<ul style="list-style-type: none"> Understand the design variations in making bamboo mats Understand the step by step process of weaving Operate the hand operated loom to weave bamboo mat Perform the post-loom operations and finishing Practice session for weaving bamboo mat on a frame loom 	<p>Frame-Loom and implements; Tools</p>
4	<p>Contribute to achieve quality in bamboo mat weaving</p>	<ul style="list-style-type: none"> Understand different types of defects in hand woven bamboo mats Learn to identify defects and their understand way to rectify them. 	<p>Samples of Bamboo mats, notebooks, pens, pencils, white</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<p>Theory Duration (hh:mm) 20:00</p> <p>Practical Duration (hh:mm) 50:00</p> <p>Corresponding NOS Code HCS/N 8707</p>		board, board marker, tools.
5	<p>Working in a team</p> <p>Theory Duration (hh:mm) 05:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code HCS/N 9908</p>	<ul style="list-style-type: none"> Understand work ethics and its importance Understand the importance of teamwork and its implementation Understand and adopting good communication skills Understand and adopting good interpersonal skills 	Notebooks, pens, pencils, white board, board marker.
6	<p>Maintain work area and tools</p> <p>Theory Duration (hh:mm) 05:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code HCS/N 9912</p>	<ul style="list-style-type: none"> Identify the different parts of the loom and understand their functions. Understand the appropriate maintenance of the loom. Identify and describe the tools used in the different weaving processes. Understand the appropriate maintenance of tools for producing quality bamboo mats 	Frame-Loom and implements; Tools-reed hook, inch tape, scissors, clipper.
7	<p>Maintain health, safety and security at workplace</p> <p>Theory Duration (hh:mm) 05:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code HCS/N 9913</p>	<ul style="list-style-type: none"> Understand the importance of living a healthy life and practice good habits Practice general safety rules Learn to manages tress efficiently 	Notebooks, pens, pencils, white board, board marker.
	<p>COMPULSORY NOS: Total Duration</p>	<p>Unique Equipment Required: Frame- Loom and Implements, reed hook, bobbins, scissors, clippers, inch tapes, notebooks, pens, pencils, white board, board marker, winding machine, warping machine, samples of bamboo</p>	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Theory Duration 75:00 Practical Duration 165:00	handicrafts.	

Grand Total Course Duration: 240 Hours 0 Minutes

(This syllabus/ curriculum has been approved by Handicrafts and Carpet Sector Skill Council)

Trainer Prerequisites for Job role: “Bamboo Mat Weaver” mapped to Qualification Pack: “HCS/Q8702, v1.0”

Sr. No.	Area	Details
1	Description	A Bamboo Mat Weaver is the one who weaves various types of Bamboo Mats using a hand operated loom. A Bamboo Mat Weaver can weave basic weaves- Plain and Twill, using Bamboo Sticks as weft and yarns as warp on a hand operated loom. The job requires the Weaver to have the skills to attach the warp on the loom and weave the basic weaves on the loom as per pattern or design provided.
2	Personal Attributes	Bamboo Mat Weaver should have good eyesight, hand-eye coordination, motor skills and vision (including near vision, distance vision, colour vision, peripheral vision, depth perception and ability to change focus).
3	Minimum Educational Qualifications	10 th pass
4a	Domain Certification	Certified for Job Role: “Bamboo Mat Weaver” mapped to QP: “HCS/Q8702, v1.0”. Minimum accepted score is 80%
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “SSC/Q1402”. Minimum accepted % as per respective SSC guidelines is 70%.
5	Experience	<ul style="list-style-type: none"> • Total 3 Years experience, • 2 Years of sector-specific experience, • Min. 1 year of teaching experience

Annexure: Assessment Criteria

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role : Bamboo Mat Weaver
Qualification Pack : HCS/Q8702
Sector Skill Council : Handicrafts & Carpet Sector Skill Council

Guidelines for Assessment:

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 Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria
5. To pass the Qualification Pack , every trainee should score a minimum of 70% 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.

		Total Marks (600)	Out of	Theory	Skills practical
1. HCS/N 8705 (Carry out basic pre-loom operations: Denting and attaching the warp on the loom)	PC1. Identify the parts of the hand operated loom and understand their functioning	100	10	4	6
	PC2. Analyze & interpret the given design (plain or twill weave) which needs to be woven & the type of raw material that is required		6	3	3
	PC3. Select and check appropriate materials- bamboo sticks and yarns, required for weaving the fabric as per the given specifications		4	1	3
	PC4. Conform to product quality standards		3	1	2
	PC5. Check with in-charge /others when unsure of new product details		3	1	2
	PC6. Minimise and dispose the waste materials in the approved manner		3	1	2
	PC7. Carry out operations at a rate which maintains workflow		6	3	3
	PC8. Leave work area safe and secure when work is complete		3	2	1
	PC9. Understand basic or plain drafting		8	4	4
	PC10. Carry out drafting- drawing the warp threads into heald eyelets using the hook as per the given		12	5	7

	specifications.				
	PC11. Detect, analyse and rectify faults while drafting		6	2	4
	PC12. Gradually knot the threads after drafting a set of ends to avoid mistakes in drafting		3	1	2
	PC13. Draw the warp threads in the warped beam through the reed dents as per the given specifications		4	2	2
	PC14. Maintain the reed hook to ensure smooth functioning		3	1	2
	PC15. Attach the warp rolled beam on the loom, in order to keep the loom ready to commence weaving operations		8	3	5
	PC16. Knot the warp threads uniformly to the rod attached to the breast beam/fabric beam		7	3	4
	PC17. Maintain the correct tension of the warp threads to prepare the loom for weaving		4	1	3
	PC18. Analyze and maintain the tension of the warp threads uniformly by beating and inserting dummy weft		4	1	3
	PC19. Respond appropriately incase of any errors or faults in the warp and other pre-weaving operations and take corrective measures		3	1	2
	TOTAL	100	40	60	
2. HCS/N 7806 (Carry out basic weaving operations: Shedding/Picking/Battening to weave mats comprising of basic weaves- Plain and Twill on hand operated loom)	PC1. Select the appropriate coloured bamboo sticks for insertion as wefts	100	8	4	4
	PC2. Ask questions to obtain more information on tasks when the instructions you have are unclear		5	2	3
	PC3. Use the correct tools and materials		3	2	1
	PC4. Check that the materials to be used are free from faults, incase of any report them		5	2	3
	PC5. Use the pedal to check if the shed formed is appropriate		4	1	3
	PC6. Carry-out the primary weaving operation of Shedding		7	2	5
	PC7. Carry-out the primary weaving operation of Picking		8	3	5
	PC8. Carry-out the primary weaving operation of Battening		7	2	5
	PC9. Carry out beating uniformly		3	1	2
	PC10. Carry-out the secondary weaving operations of Take-up		5	2	3
	PC11. Carry-out the secondary weaving operations of Let-off		5	2	3
	PC12. Trim the edges of the woven mat evenly		3	1	2
	PC13. Reduce wastage and maintain quality while cutting to get desired		3	1	2

	finishing			
	PC14. Use the designated measuring tool for measurement of mat		3	2
	PC15. Roll the mat, tag and store in a dry place		4	2
	PC16. Conform to company quality standards		7	3
	PC17. Report any damaged work to the responsible person		5	2
	PC18. Leave work area safe and secure when work is complete free from hazards		5	2
	PC19. Inspect the woven mats as per the specifications provided		5	2
	PC20. Perform all weaving-related operations with precision & accuracy		5	2
	TOTAL		100	40
				60
3. HCS/N 7807 (Contribute to achieve quality in bamboo mat weaving)	PC1. Identify and use raw materials as per the specifications provided		10	3
	PC2. Take the necessary action when materials do not conform to quality standards		8	2
	PC3. Report and replace identified faulty materials and component parts which do not meet specification		6	2
	PC4. Identify modifiable defects and rework on them		10	4
	PC5. Carry out work safely and at a rate which maintains work flow		6	2
	PC6. Report to the responsible person when the work flow of other production areas disrupts work		8	4
	PC7. Carry out quality checks at specified intervals according to instructions	100	8	4
	PC8. Apply the allowed tolerances		10	4
	PC9. Identify faults and take appropriate action for rectification		10	4
	PC10. Make adjustments promptly to ensure the hand-woven mat matches the specification		10	4
	PC11. Fault-find materials and components for stained, damage and incorrectly made-up component parts		8	4
	PC14. Maintain the required productivity and quality levels		6	3
	TOTAL		100	40
				60
4. HCS/N9908 (Working in a team)	PC1. Be accountable to one's own role in whole process of developing product		12	4
	PC2. Perform all roles with full responsibility	100	10	3
	PC3. Be effective and efficient at workplace		10	3

	PC4. Properly communicate about organisation's policies		8	4	4
	PC5. Talk politely with other team members and colleagues		10	3	7
	PC6. Adjust in different work situations		10	3	7
	PC7. Give due importance to others' point of view		10	3	7
	PC8. Avoid conflicting situations		10	2	8
	PC9. Develop new ideas for work procedures		8	2	6
	PC10. Improve upon the existing techniques to increase process efficiency		12	2	10
	TOTAL		100	29	71
5. HCS/N 9912 (Maintain work area and tools)	PC1. Handle materials and tools safely and correctly	100	8	2	6
	PC2. Use materials to minimize waste		10	3	7
	PC3. Maintain a clean and hazard free working area		10	3	7
	PC4. Maintain the tools used for stick making		8	2	6
	PC5. Carry out maintenance and/or cleaning within one's responsibility		10	3	7
	PC6. Report damaged tools and materials		12	4	8
	PC7. Work in a comfortable position with correct posture		10	3	7
	PC8. Dispose of waste safely in designated location		12	4	8
	PC9. Store tools safely after use		10	3	7
	PC10. Carry out cleaning according to schedules and limits of responsibility		10	3	7
	TOTAL		100	30	70
6. HCS/N 9913 (Maintain health, safety and security at workplace)	PC1. Comply with health and safety related instructions applicable to the workplace	100	8	2	6
	PC2. Use and maintain personal protective equipment as per protocol		8	2	6
	PC3. Carry out own activities in line with approved guidelines and procedures		8	2	6
	PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants		8	2	6
	PC5. Follow environment management system related procedures		6	2	4
	PC6. Store materials and tools in line with manufacturer's and organisational requirements		5	2	3
	PC7. Safely handle and move waste and debris		4	1	3
	PC8. Minimize health and safety		6	2	4

	risks to self and others due to own actions			
	PC9. Seek clarifications from supervisors or other authorized personnel in case of perceived risks	4	1	3
	PC10. Monitor the workplace and work processes for potential risks and threats	4	1	3
	PC11. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	5	2	3
	PC12. Report hazards and potential risks/ threats to supervisors or other authorized personnel	7	3	4
	PC13. Participate in mock drills/ evacuation procedures organised at the workplace	5	2	3
	PC14. Undertake first aid, fire fighting and emergency response training, if asked	6	2	4
	PC15. Take action based on instructions in the event of fire, emergencies or accidents	8	2	6
	PC16. Follow organisation evacuation procedures	8	2	6
	TOTAL	100	30	70