

Model Curriculum

Carpet Weaver – Knotted

SECTOR: HANDICRAFTS AND CARPET
SUB-SECTOR: CARPET
OCCUPATION: WEAVER
REF ID: HCS/Q5701, V1.0
NSQF LEVEL: 4



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: 'Carpet Weaver – Knotted' -QP No. 'HCS/Q 5701 NSQF Level 4'

Date of Issuance: **August 3rd, 2016**

Valid up to: **August 2nd, 2018**

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



Authorised Signatory
(Handicrafts and Carpet Sector Skill Council)

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Carpet Weaver – Knotted

CURRICULUM / SYLLABUS

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

Program Name	Carpet Weaver – Knotted		
Qualification Pack Name & Reference ID.	HCS/Q5701, v1.0		
Version No.	1.0	Version Update Date	03/08/16
Pre-requisites to Training	Basic literacy, preferably 5th class pass		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Install loom for knotted carpet weaving • Prepare warp structure for knotted carpet weaving and fix into the loom • Perform knotted carpet weaving as per a range of designs • Receive, track and handle payments as per work done • Use basic health and safety practices while weaving carpets • Work effectively with others 		

This course encompasses 6 out of 6 NOS (National Occupational Standards) of “Carpet Weaver – Knotted” 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"> • Get an introduction to carpets • Learn about the carpet industry in India • Know the tools and equipments required 	Laptop, PowerPoint & Hand-outs, posters, film clips, white board, marker, projector
2	<p>Install loom for knotted carpet weaving</p> <p>Theory Duration (hh:mm) 05:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code HCS/N5708</p>	<ul style="list-style-type: none"> • Identify various tools and materials used in installing a loom for knotted carpet weaving • Prepare the tools appropriately for usage appropriately: e.g. safely, cleanly, using right accessories, ensuring all parts are well maintained and functional, right sharpness, etc. • Identify any damage or malfunctioning of the tools • Use appropriate care procedures for routine maintenance or for troubleshooting • Prepare and receive the packaged loom from a valid source along with picture guide for installation • Extract key information from the picture guide for installation of the loom • Cross check that all the parts as mentioned in the guide have been received • Check that all the parts are intact and not damaged in any way • Communicate to the contact person as per the contact person details mentioned in the order description in case there is a discrepancy • Assemble the parts of the loom as per instructions provided in the picture guide • Setup the loom and fix it securely as per instructions • Fix the interlocking mechanism correctly • Check alignment using plumb and level • Make a few inches of warp and fix the warp structure correctly on the loom • Perform a sample weft and interlocking weaving and adjust the parts to ensure 	Laptop, white board, marker, projector, PPTs, Handbook, Hand operated loom in assembly as well as disassembled

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	300:00 Corresponding NOS Code HCS/N5710	<p>repeat parts; type of tana (8 threads per inch, 16 threads per inch etc.)</p> <ul style="list-style-type: none"> • Read and interpret the terminology used on the design map in local language or English Terminology: e.g Warp(Tana), Knot, Weft (Thera), Start point (Kanni), etc. • Read and extract key information in order description in local language and English. Key Information: e.g. timelines, contact person details, etc. • Check the map for any inconsistency or missing information • Cross check the raw material given with the description given in the order pack and coding given in the design map • Communicate to the contact person as per the contact person details mentioned in the order description in case there is a discrepancy or doubt in the map or raw material received • Perform Knotted weaving using various techniques as per the design • Perform checks on all equipment before starting the weaving Checks: e.g. check the warp to ensure that it is neither too loose nor too tight; cross check dimensions of the warp and threads per inch as per the design requirements; check loom alignment using plumb and chalk and thread; check curved knife have right sharpness, etc. • Rectify problems that are within owns control and seek help if unable to resolve the problem rectification: e.g. adjust the warp to right tightness; redo the warp (partially or completely as the case may be), is there is any error that cannot be corrected otherwise; adjust the loom to correct position and uprightness; Sharpen knife if blunt, etc. • Wind the yarn into spools or rolls that can easily unwind • Set the yarn spools or rolls on the spool rack attached to the warp structure in the form of a beam or rope to keep them from getting tangled or stuck • Sit comfortably on the bench and position self in such a way that the weaving can be done without straining oneself • Tie knots using various knotting techniques on the warp threads with the correct yarn and in the correct sequence as per a range of designs 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	15:00 Corresponding NOS Code CSC/N1336	<ul style="list-style-type: none">Give information to others clearly, at a pace and in a manner that helps them to understandDisplay helpful behaviour by assisting others in performing tasks in a positive manner, where required and possibleConsult with and assist others to maximize effectiveness and efficiency in carrying out tasksDisplay appropriate communication etiquette while working Communication etiquette: do not use abusive language; use appropriate titles and terms of respect; do not eat or chew while talking (vice versa) etc.Display active listening skills while interacting with others at workUse appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalismDemonstrate responsible and disciplined behaviors at the workplace Disciplined behaviours ;e.g. punctuality; completing tasks as per given time and standards; not gossiping and idling time; eliminating waste, honesty, etc.Escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict <p>Knowledge</p>	
	Total Duration Theory Duration 75:00 Practical Duration 375:00	Unique Equipment Required: Laptop, white board, marker, projector, PPTs, handbook, cutting knife, cutter/scissors, scale, measuring tape, cutting table, protective gears (goggles, mask, gloves, etc.), cleaning tools, electricity tester, accident report sheet, fire extinguisher, first-aid kit, handloom	

Grand Total Course Duration: 450 Hours, 0 Minutes

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

Trainer Prerequisites for Job role: “Carpet Weaver – Knotted” mapped to Qualification Pack: “HCS/Q5701, v1.0”

Sr. No.	Area	Details
1	Description	This job holder weaves the carpet using different knotting technique as per the design document received from proper authorities along with the consumables like warp yarn, weaving yarn, etc. The job holder may also have to install the loom, make the warp structure and set the warp in the loom as per requirement and work singly or jointly with other weavers. After weaving, the woven carpet is given to the relevant team for further processing.
2	Personal Attributes	Needs to be quality conscious, alert and physically active as well as capable to sit in position and work meticulously for long hours. Should be able to work as per instructions given, be responsible for own outcomes and work in a team.
3	Minimum Educational Qualifications	10 th class pass (with 3 years work Exp)/5 th class pass (with 5 years work exp.)
4a	Domain Certification	Certified for Job Role: “ <u>Carpet Weaver – Knotted</u> ” mapped to QP: “HCS/Q5701, 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: “MEP/Q0102”. Minimum accepted score as per respective SSC guidelines 80%.
5	Experience	<ul style="list-style-type: none"> Total 3 Years experience(for 10th pass)/Total 5 years experience(for 5th pass) 2 Years of sector-specific experience, Min. 1 year of teaching experience

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Carpet Weaver – Knotted
Qualification Pack	HCS/Q5701, v1.0
Sector Skill Council	Handicrafts and Carpet

Sr. No.	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.

Assessable Outcomes	Assessment Criteria	Total Marks	Out of	Theory	Practical Skills
HCS/N5708 Install loom for knotted carpet weaving	PC1. use adequate footwear to save from stepping on sharp objects	100	4	0	4
	PC2. state the name and location of people responsible for health and safety in the workplace		4	0	4
	PC3. identify job-site hazardous work and state possible causes of risk or accident in the workplace		5	1	4
	PC4. carry out safe working practices while dealing with hazards to ensure the safety of self and others		7	2	5
	PC5. identify various tools and materials used in installing a loom for knotted carpet weaving		4	0	4
	PC6. prepare the tools appropriately for usage		3	0	3
	PC7. identify any damage or malfunctioning of the tools		5	1	4
	PC8. use appropriate care procedures for routine maintenance or for troubleshooting		6	2	4
	PC9. receive the packaged loom from a valid source along with picture guide for installation		4	0	4

	PC10. extract key information from the picture guide for installation of the loom		4	1	3
	PC11. cross check that all the parts as mentioned in the guide have been received		7	2	5
	PC12. check that all the parts are intact and not damaged in any way		3	0	3
	PC13. communicate to the contact person as per the contact person details mentioned in the order description in case there is a discrepancy		4	1	3
	PC14. assemble the parts of the loom as per instructions provided in the picture guide		6	2	4
	PC15. setup the loom and fix it securely as per instructions		6	2	4
	PC16. fix the interlocking mechanism correctly		7	2	5
	PC17. check alignment using plumb and level		6	2	4
	PC18. make a few inches of warp and fix the warp structure correctly on the loom		6	2	4
	PC19. perform a sample weft and interlocking weaving and adjust the parts to ensure that there are no problems in weaving		6	2	4
	PC20. handle problems with respect to loom installation or alignment during weaving		4	0	4
		Total	100	22	78
HCS/N5709 Prepare warp structure for knotted carpet weaving and fix into the loom	PC1. use protective mask for protection from inhaling cotton and wool dust and adequate footwear to save from stepping on sharp objects	100	5	1	4
	PC2. state the name and location of people responsible for health and safety in the workplace		4	1	3
	PC3. identify job-site hazardous work and state possible causes of risk or accident in the workplace		4	1	3
	PC4. carry out safe working practices while dealing with hazards to ensure the safety of self and others		5	1	4
	PC5. identify various tools and materials used in carpet weaving		2	0	2
	PC6. prepare the tools appropriately for usage		2	0	2
	PC7. identify any damage or malfunctioning of the tools		3	1	2

PC8. use appropriate care procedures for routine maintenance or for troubleshooting	4	1	3
PC9. receive order pack containing processed and dyed raw material, design and description of the work from a valid source	3	0	3
PC10. extract key information from the design graph and order description	3	0	3
PC11. read and interpret the terminology used on the design map in local language or English	3	1	2
PC12. read and extract key information in order description in local language and English	3	1	2
PC13. check the map for any inconsistency or missing information	4	1	3
PC14. cross check the raw material given with the description given in the order pack and coding given in the design map	4	1	3
PC15. communicate to the contact person as per the contact person details mentioned in the order description in case there is a discrepancy or doubt in the map or raw material received	3	0	3
PC16. spool the warp yarn neatly into easily unwindable spools	2	0	2
PC17. select the warp yarn as per the requirement of the order	3	1	2
PC18. determine the yardage of yarn required from the dimension details and threads per inch mentioned in the order design and check availability	4	1	3
PC19. mark the start and end point on the loom structure as per the dimensions of the carpet to be woven leaving an allowance of	5	2	3
PC20. wind the warp yarn on the warp frame for a standing loom as per strings per inch indicated in the design document	3	1	2
PC21. count no of warp strings and ensure accuracy as per requirement calculated from order design intermittently and in the end	5	2	3
PC22. check and ensure that the dimensions of the warp are as per the design	3	1	2

	PC23. perform corrections in case of errors that can be rectified without redoing the warp structure		3	0	3
	PC24. unravel and redo warp in case error can be rectified by redoing the warp structure		3	0	3
	PC25. inform senior or supervisor in case of error that cannot be rectified at own level		4	1	3
	PC26. fix the warp structure on the loom safely and securely		4	1	3
	PC27. check vertical alignment using a plumb and adjust accordingly		3	1	2
	PC28. check horizontal alignment using a chalk and thread and adjust accordingly		3	1	2
	PC29. insert 2 weft yarns as a precautionary measure before starting the weaving part		3	1	2
		Total	100	23	77
HCS/N5710 Perform advanced knotted carpet weaving as per a range of designs	PC1. use protective mask for protection from inhaling cotton and wool dust and adequate footwear to save from stepping on sharp objects,	100	4	1	3
	PC2. state the name and location of people responsible for health and safety in the workplace		3	1	2
	PC3. identify job-site hazardous work and state possible causes of risk or accident in the workplace		3	1	2
	PC4. carry out safe working practices while dealing with hazards to ensure the safety of self and others		4	1	3
	PC5. identify various tools and materials used in carpet weaving		2	0	2
	PC6. prepare the tools appropriately for usage		2	0	2
	PC7. identify any damage or malfunctioning of the tools		2	0	2
	PC8. use appropriate care procedures for routine maintenance or for simple troubleshooting		3	1	2
	PC9. receive order pack containing processed and dyed raw material, design and description of the work from a valid source		2	0	2

	PC10. extract key information from the design graph and order description	3	1	2
	PC11. read and interpret the terminology used on the design map in local language or English	2	1	1
	PC12. read and extract key information in order description in local language and English	2	1	1
	PC13. check the map for any inconsistency or missing information	2	1	1
	PC14. cross check the raw material given with the description given in the order pack and coding given in the design map	2	1	1
	PC15. communicate to the contact person as per the contact person details mentioned in the order description in case there is a discrepancy or doubt in the map or raw material received	2	0	2
	PC16. perform checks on all equipment before starting the weaving	3	1	2
	PC17. rectify problems that are within owns control and seek help if unable to resolve the problem	3	1	2
	PC18. wind the yarn into spools or rolls that can easily unwind	1	0	1
	PC19. set the yarn spools or rolls on the spool rack attached to the warp structure in the form of a beam or rope to keep them from getting tangled or stuck	3	1	2
	PC20. sit comfortably on the bench and position self in such a way that the weaving can be done without straining oneself	3	1	2
	PC21. tie knots using various knotting techniques on the warp threads with the correct yarn and in the correct sequence as per a range of designs	4	2	2
	PC22. insert thicker yarn as a weft (thera) horizontally over each row of knots	2	1	1
	PC23. use the interlocking beam that causes the front and back threads of the warp structure to get interchanged after every weft	2	0	2
	PC24. knock the three rows together (row of knots, weft and interlocking) with the help of a wooden comb tool (panja) to set them tightly	2	0	2

PC25. weave upto 16x16 knots per square inch with a minimum tolerance level of 1 knot per 50 square inches	3	1	2
PC26. perform knotted weaving using cotton, wool or silk yarn	2	0	2
PC27. join threads neatly and tightly when broken	2	0	2
PC28. roll the woven area downwards after around 1 feet of weaving in order to keep the last woven row at accessible height	2	1	1
PC29. weave weft and interlocking rows at the beginning and end of the weaving as required by the design	2	1	1
PC30. weave simultaneously with other weavers on the same warp and design by dividing up the design	2	0	2
PC31. convert design into verbal instructions that can be recited (chalta-front, bachcha-back, dhal- up, the colour code or as per an equivalent of the taalim)	3	1	2
PC32. recite the design verbally when working simultaneously on a repetitive pattern	3	1	2
PC33. provide feedback and solutions to junior weavers when they are faced with weaving related problems	2	0	2
PC34. identify errors in weaving and suggest remedial measures where possible	3	1	2
PC35. check and ensure that the dimensions and design of the carpet weaving is as per the design	3	1	2
PC36. perform corrections in case of errors that can be rectified without redoing the weaving	3	1	2
PC37. unravel and redo weaving in case error can be rectified by redoing the last few rows of weaving	2	0	2
PC38. inform senior or supervisor in case of error that cannot be rectified at own level	2	0	2
PC39. cut and remove the woven carpet material from the warp frame without damaging or dirtying it	1	0	1
PC40. Roll, pack and dispatch to the relevant authority as mentioned in the order description along with remaining raw material	2	1	1

	PC41. secure the weaving equipment to keep it safe, dry and dirt free		1	0	1
	PC42. keep the work area tidy and clutter free		1	0	1
		Total	100	26	74
HCS/N9907 Receive, track and handle payments as per work done	PC1. cross check if the correct amount has been received as per the work agreement and/or agreed basis of payment	100	25	5	20
	PC2. keep track of expenses and payments		25	5	20
	PC3. follow up for non-receipt of payment with the appropriate authorities		20	5	15
	PC4. open a bank account and perform basic operations		30	10	20
		Total	100	25	75
HSC/N9908 Use basic health and safety practices while weaving carpets	PC1. use protective clothing/equipment for specific tasks and work conditions	100	4	1	3
	PC2. state the name and location of people responsible for health and safety in the workplace		5	2	3
	PC3. identify job-site hazardous work and state possible causes of risk or accident in the workplace		5	2	3
	PC4. carry out safe working practices while dealing with hazards to ensure the safety of self and others		5	2	3
	PC5. state methods of accident prevention in the work environment of the job role		5	1	4
	PC6. state location of general health and safety equipment in the workplace		4	0	4
	PC7. apply good housekeeping practices at all times		5	0	5
	PC8. identify common hazard signs displayed in various areas		4	1	3
	PC9. use the various appropriate fire extinguishers on different types of fires correctly		5	1	4
	PC10. demonstrate rescue techniques applied during fire hazard		5	2	3
	PC11. demonstrate good housekeeping in order to prevent fire hazards		4	1	3
	PC12. demonstrate the correct use of a fire extinguisher		5	1	4

	PC13. demonstrate how to free a person from electrocution		4	1	3
	PC14. administer appropriate first aid to victims where required e.g. in case of bleeding, burns, choking, electric shock, poisoning, etc.		5	1	4
	PC15. demonstrate basic techniques of bandaging		4	1	3
	PC16. respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments		4	0	4
	PC17. perform and organize loss minimization or rescue activity during an accident in real or simulated environments		4	0	4
	PC18. administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock, before the arrival of emergency services in real or simulated cases		4	1	3
	PC19. demonstrate the artificial respiration and the CPR Process		5	1	4
	PC20. participate in emergency procedures		4	1	3
	PC21. complete a written accident/incident report or dictate a report to another person, and send report to person responsible		6	2	4
	PC22. demonstrate correct method to move injured people and others during an emergency		4	1	3
		Total	100	23	77
CSC/N1336 Work effectively with others	PC1. accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required	100	10	3	7
	PC2. accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt		10	3	7
	PC3. give information to others clearly, at a pace and in a manner that helps them to understand		10	3	7
	PC4. display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible		10	3	7
	PC5. consult with and assist others to maximize effectiveness and efficiency in carrying out tasks		10	3	7

	PC6. display appropriate communication etiquette while working		10	3	7
	PC7. display active listening skills while interacting with others at work		10	3	7
	PC8. use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism		10	3	7
	PC9. demonstrate responsible and disciplined behaviors at the workplace		10	3	7
	PC10. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict		10	3	7
		Total	100	30	70
		Grand Total	600	149	451
		Percentage Weightage	100%	24.84%	75.16%
		Minimum Pass% to qualify (aggregate):	100%	70%	