



# Model Curriculum

## Handloom Weaver

SECTOR: HANDICRAFTS AND CARPET  
SUB-SECTOR: CARPET  
OCCUPATION: HANDLOOM WEAVER (CARPET)  
REF. ID: HCS/Q 5412, VER 1.0  
NSQF LEVEL: 3



## Certificate

### CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

**HANDICRAFTS AND CARPET SECTOR SKILLS COUNCIL**

for the

### MODEL CURRICULUM

Complying to National Occupational Standards of  
Job Role/ Qualification Pack: 'Handloom Weaver (Carpets)' QP No. 'HCS/ O 5412 NSQF Level 3'

Date of Issuance: **December 29<sup>th</sup>, 2015**

Valid up to: **December 29<sup>th</sup>, 2016**

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

Authorised Signatory  
(Handicrafts and Carpet Sector Skill Council)



## TABLE OF CONTENTS

1. Curriculum	01
2. Trainer Prerequisites	05
3. Annexure: Assessment Criteria	06



# Handloom Weaver (Carpets)

## CURRICULUM / SYLLABUS

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

Program Name	Handloom Weaver (Carpets)		
Qualification Pack Name & Reference ID.	Handloom Weaver (Carpets) HCS/Q 5412 ver 1.0		
Version No.	1.0	Version Update Date	16-12 – 2015
Pre-requisites to Training	Preferably Class 5		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"><li>• Gain familiarity with the Carpet Sector: General introduction to the Carpet Sector, different types of handmade carpets and design heritage of handmade carpets.</li><li>• Explain the complete process of weaving carpets on a hand operated loom: Basic introduction to the various steps involved in weaving hand knotted carpets and selection of yarns from the different types of yarns for making carpets.</li><li>• Identify and understand the hand operated loom, its parts and tools used for weaving carpets by hand: 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.</li><li>• Carry out pre- production processes: Strengthen the concepts of design graphs, knot density, pile height and carpet design layouts. Implement the step by step process of making the warp and drawing it on the loom.</li><li>• Perform the weaving of a carpet on a hand operated loom: Understand and implement the steps involved in weaving a hand knotted carpet on a hand operated loom as per the specifications provided. Understand the different types of knots used in making carpets.</li><li>• Identify and Assess quality aspects of hand knotted carpets: Learn about the different errors which occur during knotting the carpet, their rectification and the distinction between permissible and non- permissible defects.</li><li>• Use soft skills to improve functioning and effectiveness: Understand work ethics and its importance towards building teamwork. Adopt good communication &amp; interpersonal skills. Understand importance of living healthy life and practice general hygiene. Respect &amp; practice general safety rules to manage work related stress efficiently.</li></ul>		



This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Handloom Weaver(Carpet)” Qualification Pack issued by “Handicrafts and Carpet Sector Skill Council”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p><b>Introduction to Carpets</b></p> <p>Theory Duration (hh:mm) 02:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>Corresponding NOS Code Bridge Module</p>	<ul style="list-style-type: none"><li>• Gain familiarity with carpets and the sector.</li><li>• Gain familiarity to the design heritage of carpets in India.</li><li>• Understand the uniqueness of designs, colours and motifs.</li></ul>	Notebooks, pens, pencils, white board, board marker, samples of carpets.
2	<p><b>Introduction to Hand Knotted Carpet making</b></p> <p>Theory Duration (hh:mm) 03:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>Corresponding NOS Code Bridge Module Loom and tools</p>	<ul style="list-style-type: none"><li>• Understand the process flow of making hand knotted carpets.</li><li>• Identify and describe the different types of yarns used in making carpets.</li></ul>	Notebooks, pens, pencils, white board, board marker, samples of carpets, yarns.
3	<p>Theory Duration (hh:mm) 05:00</p> <p>Practical Duration (hh:mm) 02:00</p> <p>Corresponding NOS Code HCS/N 9912</p>	<ul style="list-style-type: none"><li>• Identify and understand the functions of different parts of the handloom.</li><li>• Identify and understand the used of tools used for weaving a carpet.</li><li>• Understand the appropriate maintenance of tools</li></ul>	Frame-Loom and its auxiliary parts, reed hook, inch tape, scissors, yarns, winding machine, warping mechanism.
4	<p><b>Pre- production process</b></p> <p>Theory Duration (hh:mm) 15:00</p>	<ul style="list-style-type: none"><li>• Gain familiarity with different layouts of the carpets.</li><li>• Gain familiarity with design graphs and understand their use.</li></ul>	Frame-Loom and implements; Tools-comb/panja, reed hook, inch tape,



Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<p><b>Practical Duration</b> (hh:mm) 028:00</p> <p><b>Corresponding NOS Code</b> HCS/N 5415</p>	<ul style="list-style-type: none"> <li>Understand knot density, pile height and their importance.</li> <li>Understand the step by step process of making the warp and drawing it on the loom.</li> <li>Practice sessions for carrying out making of the warp and drawing it on the loom.</li> </ul>	winding machine, warping mechanism.
5	<p><b>Production process of hand knotted carpet</b></p> <p><b>Theory Duration</b> (hh:mm) 15:00</p> <p><b>Practical Duration</b> (hh:mm) 50:00</p> <p><b>Corresponding NOS Code</b> HCS/N 5415</p>	<ul style="list-style-type: none"> <li>Understand the different types of knots used.</li> <li>Understand the process of knotting the yarn on the warp with Persian knot, Turkish knot and Tibetan Knot using the tools.</li> <li>Practice sessions for knotting a carpet as per the given specifications.</li> </ul>	Frame-Loom and implements; Tools-comb/panja, reed hook, inch tape, winding machine.
6	<p><b>Quality Appraisal</b></p> <p><b>Theory Duration</b> (hh:mm) 02:00</p> <p><b>Practical Duration</b> (hh:mm) 04:00</p> <p><b>Corresponding NOS Code</b> HCS/N 5415</p>	<ul style="list-style-type: none"> <li>Understand the different errors (warp breakage, tension problem, dropped pick, narrow selvedge, dye bands, oil stains, wrong pattern, improper pile etc.) which occur during knotting the carpet.</li> <li>Understand rectification of defects, their solution.</li> <li>Understand permissible and non-permissible defects in carpets.</li> </ul>	
7	<p><b>Working in a team</b></p> <p><b>Theory Duration</b> (hh:mm) 04:00</p> <p><b>Practical Duration</b> (hh:mm) 08:00</p>	<ul style="list-style-type: none"> <li>Understand work ethics</li> <li>Understand the importance of teamwork</li> <li>Understand the importance of clear communication skills</li> <li>Understand the importance of interpersonal skills</li> </ul>	



Sr. No.	Module	Key Learning Outcomes	Equipment Required
8	<p>Corresponding NOS Code HCS/N 9908 Health and Safety</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 08:00</p> <p>Corresponding NOS Code HCS/N 9913 HCS/N 9909</p>	<ul style="list-style-type: none"><li>• Understand the importance of living a healthy life and practice good habits</li><li>• Practice general safety rules</li><li>• Learn to manage stress efficiently</li></ul>	
	<p>Total Duration</p> <p>Theory Duration 50:00</p> <p>Practical Duration 100:00</p>	Unique Equipment Required: Frame- Loom and Implements, reed hook, bobbins, scissors, clippers, inch tapes.	

Grand Total Course Duration: 150 Hours 0 Minutes

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



## Trainer Prerequisites for Job role: “Handloom Weaver (Carpet)” mapped to Qualification Pack: “HCS/Q 5412 ver 1.0”

Sr. No.	Area	Details
1	Job Description	To facilitate and deliver training services as per details mentioned in the curriculum above, in accordance with the Qualification Pack “HCS/N 5412”.
2	Personal Attributes	A competent skilled artisan with an aptitude for conducting trainings, strong communication and interpersonal skills, a passion for quality and developing others; leadership quality to drive trainees with positive motivation. He/ She should preferably have basic understanding of English and must be able to read and write in the local language. 10 <sup>th</sup> Standard pass
3	Minimum Educational Qualifications	
4a	Domain Certification	Certified for Job Role: “Handloom Weaver (Carpet)” mapped to QP: “HCS/Q 5412”. Minimum accepted score as per respective SSC guidelines 80%.
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “SSC/Q1402”. Minimum accepted score as per respective SSC guidelines 60%. Minimum 3 years experience in undertaking handloom weaving production supervision as well as training/conducting/assisting training or workshops in the handicrafts sector.
5	Experience	





## Annexure: Assessment Criteria

Assessment Criteria for Handloom Weaver (Carpet)	
Job Role	Handloom Weaver (Carpet)
Qualification Pack	HCS/Q 5412 ver 1.0
Sector Skill Council	Handicrafts & 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 each PC.
2	The assessment of the theory/knowledge will be based on written test/viva-voce or both while skill test shall be hands on practical. The assessment will be based on knowledge bank of questions created by the SSC.
3	Individual assessment agencies will create unique question papers for theory and skill practical part for
4	each candidate at each examination/training center To pass the Qualification Pack, every trainee should score a minimum of 50% aggregate of all the NOSs
5	



Assessment outcome (NOS Code and Description)	Assessment criteria (PC)	Total marks	Out of	MARKS ALLOCATION	
				Theory	Skills Practical
1.HCS/N5415 (RUN THE HAND OPERATED LOOM EFFICIENTLY)	PC1. Warp setting	100	6	2	4
	PC2. Application of material on the warp		6	2	4
	PC3. Should know how to weave on the warp		8	2	6
	PC4. Should know how to repair the warp		5	1	4
	PC5. Proper usage of comb (tool used during weaving)		6	2	4
	PC6. Should be able to repair warp breakage (by replacing broken warp with new warp)				
	PC7. Find out the broken warp end		6	2	4
	PC8. Mend the broken warp end by replacing with extra warp		6	2	4
	PC9. Should be able draw warp threads for weaver's beam behind the operator		6	2	4
	PC10. Should ensure tension (tightness) of warp threads are uniform		6	2	4
	PC11. Should ensure spacing of warp threads per inch is matching with design		5	1	4
	PC12. Ensure right color of yarn to be used as per the design				
	PC13. Should weave as per design		5	1	4
	PC14. Ensure to trip extra weft				
	PC15. Should be well acquainted with the operation of the weaving pedals		5	1	4
	PC16. Should be aware of the required hammering density		6	2	4
	PC17. Should have knowledge of cutting the pile evenly		6	2	4
		6	2	4	
		6	2	4	
		NOS Total	100	30	70
2.HCS/N9906 (MAINTAIN THE WORK AREA, TOOLS AND MACHINES)	PC1. Handle materials, machinery, equipment and tools with care and use them in correct way	100	14	6	8
	PC2. Maintain a clean and hazard free working area		10	4	6
	PC3. Carry out running maintenance within agreed schedules		13	5	8
	PC4. Carry out maintenance and/or cleaning within one's responsibility		13	5	8
	PC5. Report unsafe equipment and other dangerous occurrences		12	4	8
	PC6. Use clean equipment and methods appropriate for the work to be carried out		11	5	6
	PC7. Dispose of waste safely in the designated location		14	6	8
	PC8. Store cleaning of equipment safely after use		13	5	8
		NOS Total	100	40	60



		MARKS ALLOCATION			
Assessment outcome (NOS Code and Description)	Assessment criteria (PC)	Total marks	Out of	Theory	Skills Practical
3. HCS/N9908(WORKING IN A TEAM)	PC1. Be accountable to one's own role in whole process	100	10	4	6
	PC2. Perform all roles with full responsibility		10	4	6
	PC3. Report problems faced during the process		10	4	6
	PC4. Talk politely with other team members and colleagues		10	4	6
	PC5. Submit daily report of own performance		10	4	6
	PC6. Adjust in different work situations		10	4	6
	PC7. Give due importance to others' point of view		10	4	6
	PC8. Avoid conflicting situations		10	4	6
	PC9. Develop new ideas for work procedures		10	4	6
	PC10. Improve upon the existing techniques to increase process efficiency		10	4	6
	NOS Total	100	40	60	
4. HCS/N9909 (MAINTAIN HEALTH, SAFETY AND SECURITY AT WORK PLACE)	PC1. Identify activities that can cause potential injury through sharp objects and other tools and equipments	100	10	2	8
	PC2. Use and maintain personal protective equipment such as "Nose Mask" etc		10	2	8
	PC3. Identify areas in the workplace which are potentially hazardous /unhygienic in nature		10	2	8
	PC4. Conduct regular checks on equipment and machines to identify potential hazards due to wear tear of the machine		8	2	6
	PC5. Inform concerned authorities about the potential risks identified in the processes, workplace area/layout, materials used etc.		12	4	8
	PC6. Report malfunctions of tools to supervisor wherever applicable		12	4	8
	PC7. Follow the instructions given on the equipment manual describing the operating process		8	2	6
	PC8. Maintain a clean and safe working environment by ensuring no chemicals is spread on the floor resulting in injury		8	2	6
	PC9. Maintain high standards of personal hygiene at the work place		8	2	6
PC10. Ensure zero accidents at workplace	8	2	6		
		8	2	6	
		8	2	6	



				MARKS ALLOCATION	
Assessment outcome (NOS Code and Description)	Assessment criteria (PC)	Total marks	Out of	Theory	Skills Practical
	PC11. Adhere to safety norms and ensure no damage to any material or individual		6	1	5
		NOS Total	100	25	75



### **Handicrafts and Carpet Sector Skill Council**

Export Promotion Council for Handicrafts, EPCH House, Pocket 6&7, Sector 'C',  
LSC, Vasant Kunj, New Delhi-110070