

# Model Curriculum

## 1. Handloom Weaver (Carpets)

**SECTOR: HANDICRAFTS AND CARPET**  
**SUB-SECTOR: CARPET**  
**OCCUPATION: WEAVING**  
**REF ID: HCS/Q5412, 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: 'Handloom Weaver (Carpets)' - QP No. 'HCS/ Q 54.12 NSQF Level 3'

Date of Issuance: **May 27<sup>th</sup>, 2015**

Valid up to: **May 26<sup>th</sup>, 2016**

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



Authorised Signatory  
(Handicrafts and Carpet Sector Skill Council)

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# 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

<b>Program Name</b>	<b>Handicrafts and Carpet Sector</b>		
<b>Qualification Pack Name &amp; Reference ID. ID</b>	HCS/Q5412, v1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	26/05/2016
<b>Pre-requisites to Training</b>	Basic literacy, preferably 5th class pass		
<b>Training Outcomes</b>	<p><b>After completing this program, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• <b>Gain familiarity with the Carpet Sector:</b> General introduction to the Carpet Sector, different types of hand-made carpets and design heritage of hand-made carpets.</li> <li>• <b>Explain the complete process of weaving carpets on a hand-operated loom:</b> 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>• <b>Identify and understand the hand-operated loom, its parts and tools used for weaving carpets by hand:</b> 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>• <b>Carry out pre-production processes:</b> 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>• <b>Perform the weaving of a carpet on a hand-operated loom:</b> 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>• <b>Identify and Assess quality aspects of hand-knotted carpets:</b> Learn about the different errors which occur during knotting the carpet, their rectification and the distinction between permissible and non-permissible defects.</li> <li>• <b>Use soft skills to improve functioning and effectiveness:</b> Understand work ethics and its importance towards building team work. Adopt good communication &amp; inter-personal 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 NOS (National Occupational Standards) of “Handloom Weaver (Carpets)” 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><b>Theory Duration</b> (hh:mm) 10:00</p> <p><b>Practical Duration</b> (hh:mm) 00:00</p> <p><b>Corresponding NOS Code</b> 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> <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, whiteboard, board marker, samples of carpets, yarns.
2	<p><b>Run the hand operated loom efficiently</b></p> <p><b>Theory Duration</b> (hh:mm) 20:00</p> <p><b>Practical Duration</b> (hh:mm) 160:00</p> <p><b>Corresponding NOS Code</b> HCS/N5415</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> <li>Gain familiarity with different layouts of the carpets.</li> <li>Gain familiarity with design graphs and understand their use.</li> <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> <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 Tibet an Knot using the tools.</li> <li>Practice sessions for knotting a carpet as per the given specifications.</li> <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>	Loom and its auxiliary parts, reed hook, inch tape, scissors, yarns, winding machine, warping mechanism, and comb/panja.
3	<p><b>Maintain work area, tools and machines</b></p>	<ul style="list-style-type: none"> <li>Handle materials, machinery, equipment and tools with care and use</li> </ul>	Laptop, white board, marker,



Sr. No.	Module	Key Learning Outcomes	Equipment Required
	HCS/N9908	<ul style="list-style-type: none"> <li>Avoid conflicting situations</li> <li>Develop new ideas for work procedures</li> <li>Improve upon the existing techniques to increase process efficiency</li> </ul>	
6	<p><b>Comply with industry and organizational requirement</b></p> <p><b>Theory Duration</b> (hh:mm) 05:00</p> <p><b>Practical Duration</b> (hh:mm) 15:00</p> <p><b>Corresponding NOS Code</b> HCS/N9909</p>	<ul style="list-style-type: none"> <li>Carry out work functions in accordance with legislation and regulations, organizational guidelines and procedures</li> <li>Seek and obtain clarifications on policies and procedures, from your supervisor or other authorized personnel</li> <li>Apply and follow these policies and procedures within your work practices</li> <li>Provide support to your supervisor and team members in enforcing these considerations</li> <li>Identify and report any possible deviation to these requirements</li> </ul>	Laptop, white board, marker, projector
	<p><b>COMPULSORY NOS: Total Duration</b></p> <p><b>Theory Duration</b> <b>50:00</b></p> <p><b>Practical Duration</b> <b>220:00</b></p>	<p><b>Unique Equipment Required:</b> Laptop, white board, marker, projector, first aid kit</p>	

Grand Total Course Duration: 270 Hours, 0 Minutes

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

## Trainer Prerequisites for Job role: “Handloom Weaver (Carpets)” mapped to Qualification Pack: “HCS/Q5412, v1.0”

Sr. No.	Area	Details
1	<b>Description</b>	To facilitate and deliver training services as per details mentioned in the curriculum above, in accordance with the Qualification Pack “HCS/N5412”.
2	<b>Personal Attributes</b>	A competent skilled artisan with an aptitude for conducting trainings, strong communication and inter personal 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.
3	<b>Minimum Educational Qualifications</b>	10 <sup>th</sup> class pass(with 3 years work Exp)/5 <sup>th</sup> class pass(with 5 years work exp.)
4a	<b>Domain Certification</b>	Certified for Job Role: “Handloom Weaver (Carpet)” mapped to QP: “HCS/Q5412”. Minimum accepted score as per respective SSC guidelines 80%.
4b	<b>Platform Certification</b>	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%.
5	<b>Experience</b>	<ul style="list-style-type: none"> <li>Minimum 3 years experience for 10<sup>th</sup> pass and minimum 5 years experience for 5<sup>th</sup> pass in undertaking handloom weaving production supervision as well as training/conducting/assisting training or workshops in the handicrafts sector.</li> </ul>



### Annexure: Assessment Criteria

<b>Assessment Criteria</b>	
<b>Job Role</b>	<b>Handloom Weaver (Carpets)</b>
<b>Qualification Pack</b>	<b>HCS/Q5412, v1.0</b>
<b>Sector Skill Council</b>	<b>Handicrafts and Carpet</b>

<b>Sr. No.</b>	<b>Guidelines for Assessment</b>
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.
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 center.
5	To pass the Qualification Pack, every trainee should score a minimum of 50% aggregate of all the NOSs

NOS Elements	Performance criteria	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)		6	2	4
	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		5	1	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		5	1	4
	PC13. Should weave as per design		6	2	4
	PC14. Ensure to trip extra weft		6	2	4
	PC15. Should be well acquainted with the operation of the weaving pedals		6	2	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
	TOTAL		100	30	70
				Marks allocation	
NOS Elements	Performance criteria	Total	Out of	Theory	Skills

		marks			Practical
<b>2.HCS/N9906 - Maintain the work area, tools and machines</b>	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
	TOTAL		<b>100</b>	<b>40</b>	<b>60</b>
			<b>Marks allocation</b>		
<b>NOS Elements</b>	<b>Performance criteria</b>	<b>Total marks</b>	<b>Out of</b>	<b>Theory</b>	<b>Skills Practical</b>
<b>3. HCS/N9907 Maintain health, safety and security at work place</b>	PC1. Identify activities that can cause potential injury through sharp objects and other tools and equipments	100	10	4	6
	PC2. Use and maintain personal protective equipment such as "Nose Mask" etc.		12	5	7
	PC3. Identify areas in the workplace which are potentially hazardous/unhygienic in nature		12	5	7
	PC4. Conduct regular checks on equipment and machines to identify potential hazards due to wear and tear of the machine		12	5	7
	PC5. Inform concerned authorities about the potential risks identified in the processes, workplace area/layout, materials used etc.		12	5	7
	PC6. Report malfunctions of tools to supervisors wherever applicable		12	5	7
	PC7. Follow the instructions given on the equipment manual describing the operating process		10	4	6

	PC8. Maintain a clean and safe working environment by ensuring no chemicals is spread on the floor resulting in injury		10	4	6
	PC9. Maintain high standards of personal hygiene at the work place		10	3	7
	TOTAL		<b>100</b>	<b>40</b>	<b>60</b>
				<b>Marks allocation</b>	
<b>NOS Elements</b>	<b>Performance criteria</b>	<b>Total marks</b>	<b>Out of</b>	<b>Theory</b>	<b>Skills Practical</b>
<b>4. HCS/N9908 - Working in a team</b>	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
	TOTAL			<b>40</b>	<b>60</b>
				<b>Marks allocation</b>	
<b>NOS Element</b>	<b>Performance Criteria</b>	<b>Total marks</b>	<b>Out of</b>	<b>Theory</b>	<b>Skills Practical</b>
<b>5. HCS/N9909 -Maintain health, safety and security at work place</b>	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		10	2	8

	nature				
	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 supervisors 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
	PC11. Adhere to safety norms and ensure no damage to any material or individual		6	1	5
	<b>TOTAL POINTS</b>		<b>100</b>	<b>25</b>	<b>75</b>