



## QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR HANDICRAFTS AND CARPET

### What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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## Introduction

### Qualifications Pack- Tufting Gun Master

SECTOR: Handicrafts and Carpet

SUB-SECTOR: Carpet

OCCUPATION: Weaving

REFERENCE ID: HCS/Q5409

ALIGNED TO: NCO-2004/NIL

**Tufting Gun Master:** The Tufting Gun Master operates the tufting carpet loom as well as repairs faulty tufting guns both mechanical and electrical types.

**Brief Job Description:** The Tufting Gun Master commonly called as Mistree is a job role with expert in attending breakdown maintenance of the equipment as well as operates tufting gun as skilled operator. As a mistree, he repairs tufting guns identified with defects or malfunctioning. He corrects the faults and/or improvises functionality and flexibility of the equipment. He uses grinding and other similar machines and devices and hand tools to execute the task.

**Personal Attributes:** The Tufting Gun Master should be patient and hard working. He should be investigative, analytic with flair working with instrument.



Job Details	Qualifications Pack Code	HCS/Q5409		
	Job Role	Tufting Gun Master		
	Credits (NSQF)	TBD	Version number	1.0
	Sector	Handicrafts and carpet	Drafted on	30/04/15
	Sub-sector	Carpet	Last reviewed on	27/05/15
	Occupation	Weaving	Next review date	26/05/16

Job Role	Tufting Gun Master
Role Description	To operate the tufting carpet loom as well as to repair and correct mechanical and electrical tufting gun detected with defects
NSQF level	4
Minimum Educational Qualifications*	Preferably Class V
Maximum Educational Qualifications*	Not Applicable
Training (Suggested but not mandatory)	Certificate in ITI trade of Fitter/Mechanic
Experience	2-3 years of working in carpet tufted weaving section
Applicable National Occupational Standards (NOS)	<p>Compulsory:</p> <ol style="list-style-type: none"> <li>1. <a href="#">HCS/N5409 Weaving of tufted carpet</a></li> <li>2. <a href="#">HCS/N5410 Repairing of tufting guns</a></li> <li>3. <a href="#">HCS/N9906 Maintain work area, tools and machines</a></li> <li>4. <a href="#">HCS/N9908 Working in a team</a></li> <li>5. <a href="#">HCS/N9907 Maintain health, safety and security at workplace</a></li> <li>6. <a href="#">HCS/N9909 Comply with industry and organizational requirement</a></li> </ol> <p>Optional: Not Applicable</p>
Performance Criteria	As described in the relevant OS units



Definitions	Keywords /Terms	Description
	Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
	Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
	Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.
	Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
	Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
	Sub-functions	Sub-functions are sub-activities essential achieving the objectives of the function.
	Job role	Job role defines unique set of functions that together form a unique employment opportunity in an organization.
	Occupational Standards (OS)	OS specify the standards of performance an individual must achieve consistently while carrying out a function at the workplace. Occupational Standards as set of competencies is applicable both in Indian and overreaching global contexts.
	Performance Criteria	Performance Criteria defined for a task are statements that together specify the standard of performance while carrying out the task.
	National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in Indian context.
	Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
	Qualifications Pack(QP)	Qualifications Pack comprises set of OS, together with the educational, training and other criteria that are required to perform a job role satisfactorily at workplace. A Qualifications Pack is assigned a unique qualification pack code for clear identification.
	Knowledge and Understanding	Knowledge and Understanding are statements which together as a set specify the technical, generic, professional and organization specific knowledge that an individual needs to possess in order to perform and meet the required standards consistently.
	Organizational Context	Organizational Context includes the way the organization is structured and how it operates. It includes elements of operational knowledge

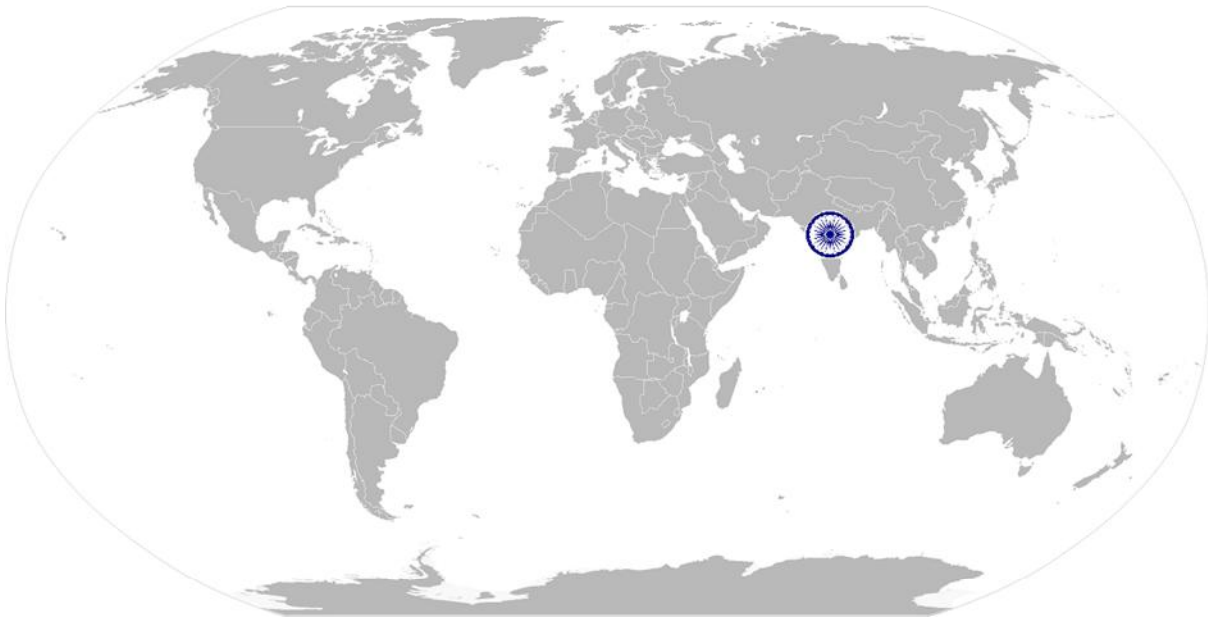


	contents defined in relation to functioning of an organization that a skilled professional need to possess specific to its precise areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific domain knowledge needed to accomplish the task in combination with other competencies. It is usually coined with specifically designated roles and responsibilities.
Core Skills/Generic Skills	Core Skills or Generic Skills as set are group of skills. It is key to working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include mainly communication related skills that are applicable to most job roles.
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
<b>Keywords /Terms</b>	<b>Description</b>
SSC	Sector Skill Council
OS	Occupational Standard(s)
NOS	National Occupational Standard(s)
QP	Qualifications Pack
NSQF	National Skill Qualifications Framework
NCO	National Classifications of Occupation
TBD	To Be Determined
HCS	Handicrafts and Carpet Skill Sector Council
NSDC	National Skill Development Corporation

Acronyms



# National Occupational Standard



## Overview

This unit is about capturing skills and attributes for weaving tufted carpet with the help of hand held tufting guns (mechanical/electrical types)..



HCS/N5409

Weaving of tufted Carpets

National Occupational Standard	Unit Code	HCS/N5409
	Unit Title (Task)	Weaving of tufted carpet
	Description	This unit is about inventory of skills, knowledge, tools and techniques needed for operation of tufting gun to produce tufted carpets.
	Scope	This unit/task covers the following: <ul style="list-style-type: none"> <li>To test check working of tufting gun</li> <li>To read and understand quality of carpet as per tuft requirement</li> <li>Operate the equipment</li> </ul>
	Elements	Performance Criteria
	Test checking of tufting gun	<p>PC1. Operate the tufting gun on separate test fabric materials</p> <p>PC2. Check for tuft density of test sample</p> <p>PC3. For electrically operated tufting gun, check for power connectivity as accessible and free from hazards</p> <p>PC4. Inform supervisor for any defects detected with the equipment</p>
	Production of tufted carpet	<p>PC5. Understand buyer's defined and implied requirements for quality and product conformity</p> <p>PC6. Collect all information needed like carpet design, shade card, yarn types, tuft type, cut pile height, tuft density, etc</p> <p>PC7. Identify and highlight constraints affecting production, quality and target delivery</p> <p>PC8. Check yarn shade as per design particulars</p> <p>PC9. Check for clarity of design traced onto fabric</p> <p>PC10. Check for design matches with tufted loom frame size etc</p> <p>PC11. Check for type of tufting gun used [manual generally used for 16-20 tuft/inch<sup>2</sup> and electrically operated for 30-36 tuft/inch<sup>2</sup>]</p> <p>PC12. Check Pile height for loop and cut type</p> <p>PC13. Ensure tufting is done as per requirements of ply and spacing defined</p> <p>PC14. Identify different types of faults likely to be encountered during tufting</p>
	Knowledge and Understanding (K)	
	A. Organizational Context (Knowledge of the company/ organization and its processes)	<p>KA1. general rules and regulations in a carpet industry</p> <p>KA2. Correct and safe working of tufting gun</p> <p>KA3. Ensure product matches buyer's specified requirements for quality</p> <p>KA4. Identify quality and production targets and the effect of not meeting these on self and/or your team</p>
	B. Technical Knowledge	<p>KB1. understanding the importance of</p> <ul style="list-style-type: none"> <li>types of yarn</li> <li>type of base fabric</li> <li>carpet design</li> <li>knot types</li> <li>tuft density</li> <li>carpet dimension</li> <li>general aesthetic parameters – appearance, cleanliness, feel, etc</li> </ul> <p>KB2. process flow in handmade carpet manufacturing sector</p>



HCS/N5409

**Weaving of tufted Carpets**

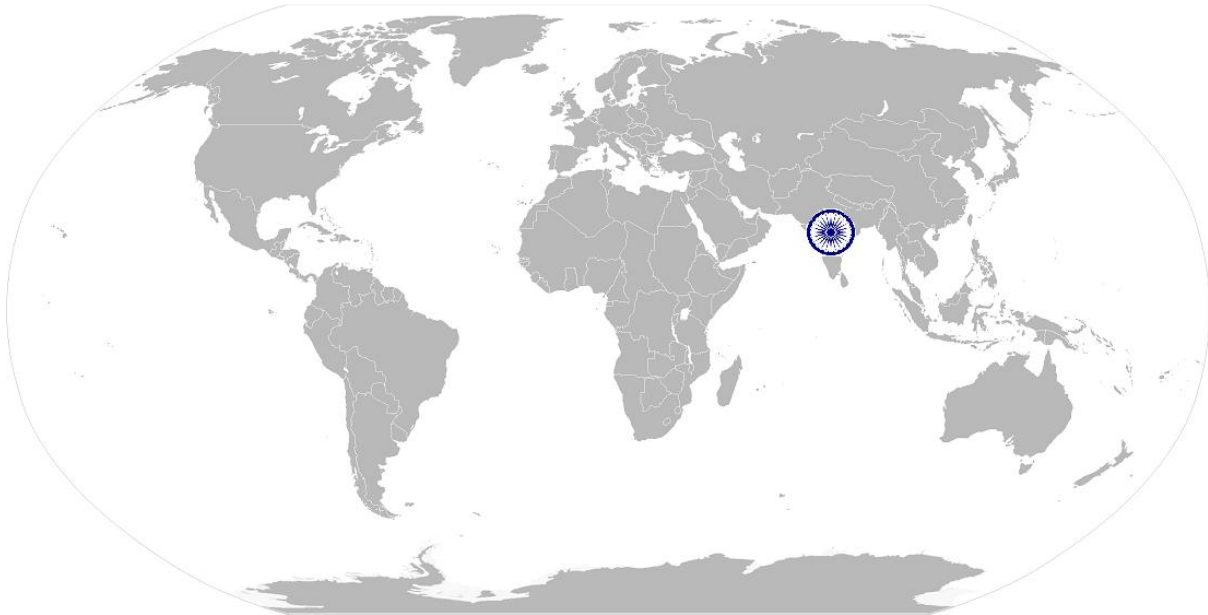
	<p>KB3. importance of marking/coding/labelling etc followed at various process stages for identification and traceability</p> <p>KB4. importance of cleanliness at workplace</p> <p>KB5. Importance of safety and security at workplace</p>
<b>Skills (S)</b>	
A. Core Skills/ Generic Skills	Writing Skills
	SA1. Write instruction clearly and legibly
	Reading Skills
	SA2. Read and comprehend written instructions
	Oral Communication (Listening and Speaking skills)
B. Professional Skills	SA3. Communicate with supervisor and juniors appropriately
	SA4. Talk to others to convey information effectively
	Problem Solving
	SB1. Apply problem-solving approaches in different situations
	SB2. Seek clarification on problems from others
	Attention to Detail
	SB3. Apply good attention to detail
	SB4. Check work is complete and free from errors

**NOS Version Control**

NOS Code	HCS/N5409		
Credits (NSQF)	TBD	Version number	1.0
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Industry Sub-sector	Carpet	Last reviewed on	27/05/15
Occupation	Weaving	Next review date	26/05/16



# National Occupational Standard



## Overview

This unit is NOS describes about the skills, tools, techniques and knowledge required to repair the tufting gun detected with defects or malfunctioning.





HCS/N5410

**Repair of tufting Gun**

National Occupational Standard	Unit Code	HCS/N5410
	Unit Title (Task)	Repairing of Tufting gun
	Description	This unit is about inventory of skills, knowledge, tools, techniques and machines needed for repairing of tufting gun.
	Scope	This unit/task covers the following: <ul style="list-style-type: none"> <li>The scope includes repairing of tufting guns of mechanical and electrical types</li> </ul>
	Performance Criteria(PC) w.r.t. the Scope	
	Element	Performance Criteria
	Analysis and Repair of equipment faults	<p>PC1. Analyse faults and its severity on process, product and safety</p> <ul style="list-style-type: none"> <li>Mechanical faults</li> <li>Electrical faults</li> <li>Faults due equipment limitation</li> </ul> <p>PC2. Diagnose fault cause and its severity e.g. excessive loop quality, fabric tearing, loop skip, etc</p> <p>PC3. Repair by replacing the damaged parts with new one</p> <p>PC4. Repair by rectifying parts with fabricated components in-house</p> <p>PC5. Rectify equipment limitation by fabricated components developed in-house</p> <p>PC6. Find economic solution to faults rectification</p>
	Checking after repairing	PC7. Ensure faults are rectified and the equipment works proper
	Knowledge and Understanding (K)	
	A. Organizational Context (Knowledge of the company/ organization and its processes)	<p>KA1. general rules and regulations in a carpet processing section</p> <p>KA1. the organization's policies and procedures</p> <p>KA2. The process of drying and how it is affected by previous processes and how it affects subsequent processes</p> <p>KA2. potential hazards associated with the equipment</p> <p>KA3. Safety precautions that must be taken while attending the equipment</p> <p>KA4. protocol to obtain more information on work related tasks</p> <p>KA5. contact person in case of queries on procedure or products and for resolving issues related to defective equipments</p> <p>KA6. details of the various job roles and responsibilities</p> <p>KA7. protocol and format for reporting work related risks/ problems</p> <p>KA8. method of obtaining /giving feed back with respect to performance</p> <p>KA9. importance of team work and harmonious working relationships</p> <p>KA10. process for offering /obtaining work related assistance</p> <p>KA11. responsibilities under health, safety and environmental legislation</p>



HCS/N5410

**Repair of tufting Gun**

<p>B. Technical Knowledge</p>	<p>KB1. quality requirements of the product with respect to permissible/non permissible defects</p> <p>KB2. Product quality particulars such as pile height, pile density etc</p> <p>KB3. Understandings about:</p> <ul style="list-style-type: none"> <li>• Material composition of carpet</li> <li>• Quality parameters of the carpet</li> <li>• Tufting process and tufting equipments</li> <li>• Operation and handling of mechanical and electrical tufting gun</li> <li>• Control and Settings on equipments</li> <li>• Common equipment faults observed/detected</li> <li>• types of quality defects generated due faulty equipment</li> <li>• stop motion on equipment</li> </ul> <p>KB3. process flow in tufted carpet manufacturing processing</p> <p>KB4. importance of cleanliness at workplace</p> <p>KB5. Explain difference between correctable and non-correctable equipment faults</p> <p>KB6. Acceptable solutions for specific faults identified/detected</p> <p>KB7. Method to make use of the information detailed in specifications and Work instructions</p>
<p><b>Skills (S) [Optional]</b></p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. prepare status and progress reports</p> <p>SA2. write memos and e-mail to co-workers, and vendors to provide them with work updates and to request appropriate information without English language errors regarding grammar or sentence construct</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. keep abreast with the latest knowledge by reading brochures, pamphlets, and product information sheets</p> <p>Oral Communication (Listening and Speaking skills)</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA4. discuss task lists, schedules, and work-loads with co-workers</p> <p>SA5. keep co-workers and supervisors informed about progress</p>
<p>B. Professional Skills</p>	<p>Decision Making</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. make decisions pertaining to the concerned area of work</p> <p>Plan and Organize</p> <p>The user/individual on the job needs to know and understand:</p> <p>SB2. plan and organize service feedback files/documents</p> <p>Customer Centricity</p>



HCS/N5410

**Repair of tufting Gun**

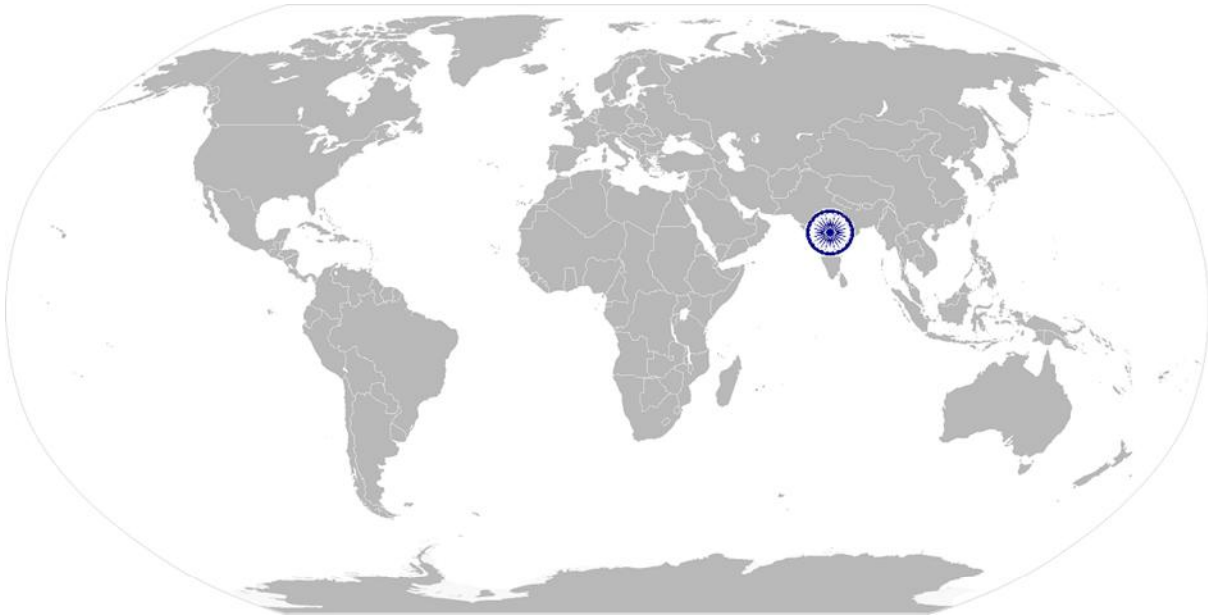
	The user/individual on the job needs to know and understand how to: SB3. manage relationships with customers SB4. build customer relationships and use customer centric approach
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB5. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB6. identify immediate or temporary solutions to resolve delays
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB7. use the existing data to arrive at specific data points
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB8. apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action

**NOS Version Control**

NOS Code	HCS/N5410		
Credits (NSQF)	TBD	Version number	1.0
Industry	Handicrafts and carpet	Drafted on	30/04/15
Industry Sub-sector	Carpet	Last reviewed on	27/05/15
Occupation	Weaving	Next review date	26/05/16



# National Occupational Standard



## Overview

This unit is about maintaining work areas and activities to ensure tools and machines are maintained as per norms.



HCS/N9906

Maintaining work area, tools and machines

National Occupational Standard	Unit Code	HCS/N9906
	Unit Title (Task)	Maintaining work area, tools and machines
	Description	This unit provides performance criteria, knowledge & understanding and skills & abilities required to organize/maintain work areas and activities to ensure tools and machines are maintained as per norms
	Scope	This unit/task covers the following: <ul style="list-style-type: none"> <li>• Proper maintaining of work area and activities</li> <li>• Maintenance of work related handtools and equipments</li> </ul>
	Performance Criteria(PC) w.r.t. the Scope	
	Element	Performance Criteria
	Maintain the work area, tools and machines	PC1. handle materials, machinery, equipment and tools with care and use them in correct way PC2. Use correct lifting and handling procedures PC3. maintain clean and hazard free working area PC4. carry out running maintenance within agreed schedules PC5. carry out maintenance and/or cleaning within one's responsibility PC6. report unsafe equipment and other dangerous occurrences PC7. use clean equipment and methods appropriate for the work to be carried out PC8. dispose of waste safely in the designated location PC9. store equipment safely after use
	Knowledge and Understanding (K)	
	A. Organizational Context (Knowledge of the company/ organization and its processes)	KA1. personal hygiene and duty of care KA2. safe working practices and organizational procedures KA3. ways of resolving conflicts/problems within the work area KA4. the production process and the specific work activities that relate to the whole process KA5. organization's rules, codes and guidelines (including timekeeping) KA6. the company's quality standards KA7. importance of complying with written instructions
	B. Technical/Domain Knowledge	KB1. work instructions and ability to interpret them accurately KB2. relation between work role and the overall manufacturing process KB3. Hazards likely to be encountered when carrying out the maintenance process KB4. maintenance procedures KB5. importance of running maintenance and regular cleaning KB6. safe working practices for maintenance KB7. the importance of taking action when problems are identified KB8. effects of contamination on products i.e. machine oil, dirt, foreign materials KB9. common faults with equipment and the method to rectify
Skills (S) [Optional]		
A. Core Skills/ Generic Skills	Writing Skills	



HCS/N9906

**Maintaining work area, tools and machines**

	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. prepare status and progress reports</p> <p>SA2. write memos and e-mail to co-workers, and vendors to provide them with work updates and to request appropriate information without English language errors regarding grammar or sentence construct</p>
	<p>Reading Skills</p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. keep abreast with the latest knowledge by reading brochures, pamphlets, and product information sheets</p>
	<p>Oral Communication (Listening and Speaking skills)</p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA4. discuss task lists, schedules, and work-loads with co-workers</p> <p>SA5. keep coworker and supervisor informed about progress</p>
B. Professional Skills	<p>Decision Making</p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. make decisions pertaining to the concerned area of work</p>
	<p>Plan and Organize</p>
	<p>The user/individual on the job needs to know and understand:</p> <p>SB2. plan and manage work routine based on company procedure</p> <p>SB3. plan and organize service feedback files/documents</p>
	<p>Customer Centricity</p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB4. manage relationships with customers</p> <p>SB5. build customer relationships and use customer centric approach</p>
	<p>Problem Solving</p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB6. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s)</p> <p>SB7. identify immediate or temporary solutions to resolve delays</p>
	<p>Analytical Thinking</p>
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB8. use the existing data to arrive at specific data points</p>
	<p>Critical Thinking</p>
<p>The user/individual on the job needs to know and understand how to:</p> <p>SB9. apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action</p>	

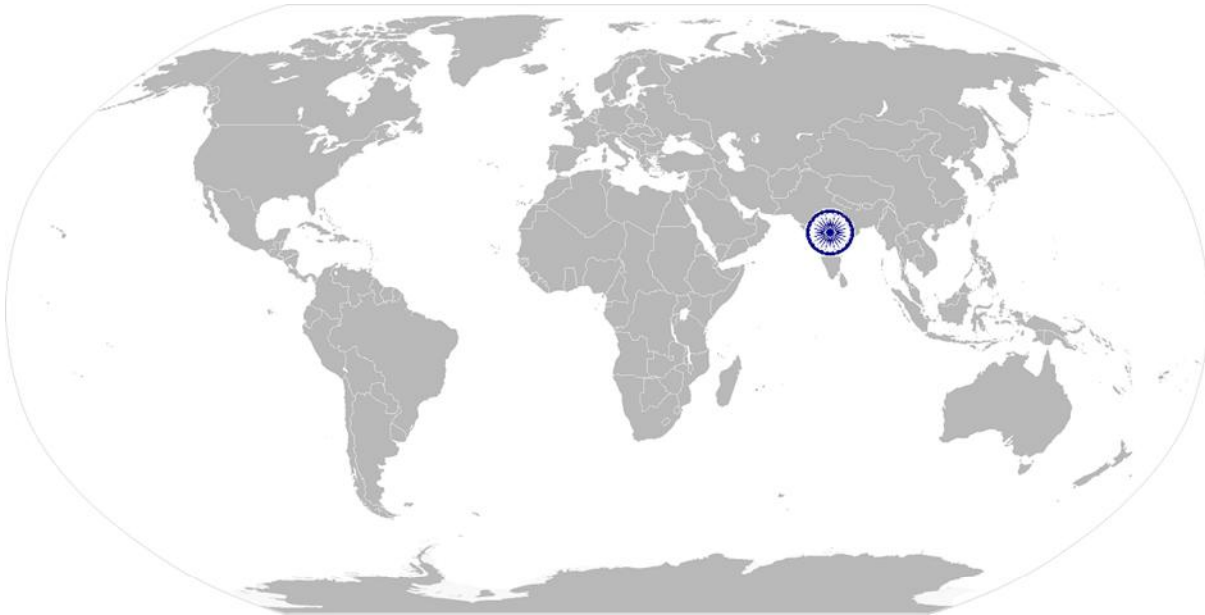


HCS/N9906

Maintaining work area, tools and machines

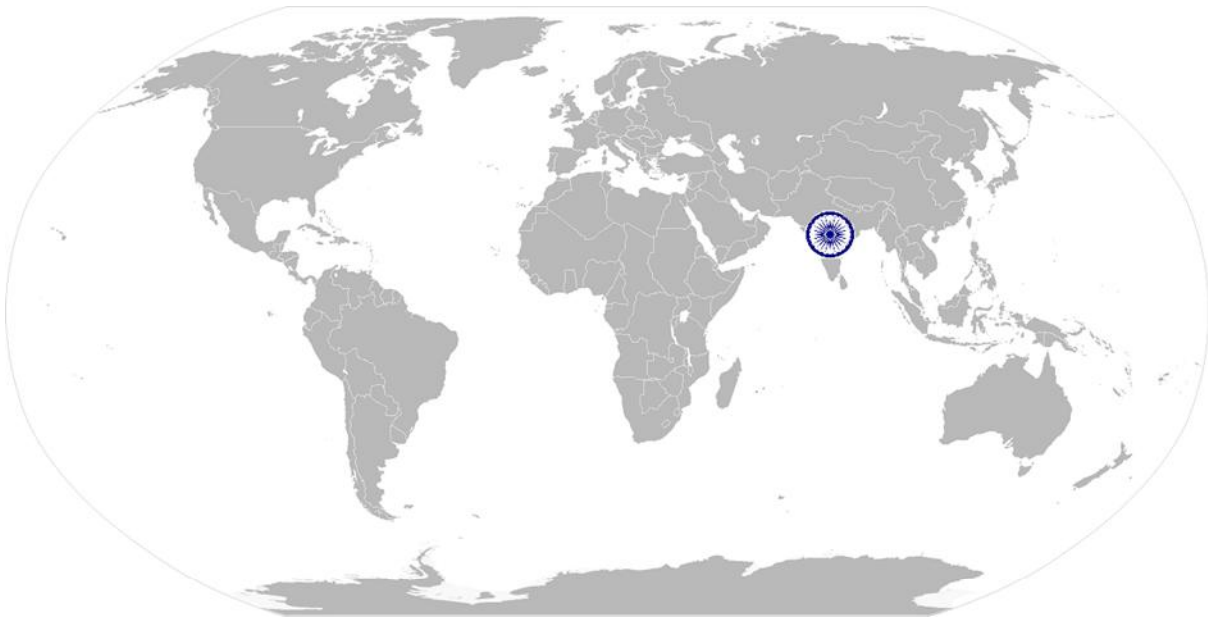
## NOS Version Control

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Industry	Handicrafts and carpet	Drafted on	30/04/15
Industry Sub-sector	Carpet	Last reviewed on	27/05/15
Occupation	Weaving	Next review date	26/05/16





# National Occupational Standard



## Overview

This unit is about working as part of a team in the process





HCS/N9908

Working in a team

National Occupational Standard	Unit Code	HCS/N9908
	Unit Title (Task)	Working in a team
	Description	This unit is about working as a team member in the role of carpet hand operated loom weaver
	Scope	<ul style="list-style-type: none"> <li>• Commitment and trust</li> <li>• Communication</li> <li>• Adaptability</li> <li>• Creative freedom</li> </ul>
	Performance Criteria(PC) w.r.t. the Scope	
	Element	Performance Criteria
	Commitment and trust	PC1. Be accountable to one's own role in whole process of weaving PC2. Perform all roles with full responsibility PC3. Be effective and efficient at workplace
	Communication	PC4. Properly communicate about company policies PC5. Talk politely with other team members and colleagues
	Adaptability	PC6. Adjust in different work situations PC7. Give due importance to others' point of view PC8. Avoid conflicting situations
	Creative freedom	PC9. Develop new ideas for work procedures PC10. Improve upon the existing techniques to increase process efficiency
Knowledge and Understanding (K)		
A. Organizational Context (Knowledge of the company / organization and its processes)	KA1. General rules and regulations in a carpet sector KA2. Procedure followed to get the final output KA3. Safe working practices to be adopted KA4. Reporting to the supervisor or higher authority about any grievances faced	
B. Technical Knowledge	KB1. Understanding the importance of the previous and next step of the process KB2. Process flow in a carpet weaving section KB3. Material sequence of flow KB4. Functions of different parts of carpet hand operated loom KB5. Tools and equipments used KB6. Guidelines for operating the hand operated loom KB7. Safety procedures to be followed in hand operated loom	
Skills (S) [Optional]		



HCS/N9908

Working in a team

A. Core Skills/ Generic Skills	Writing Skills
	SA1. Write instructions in local language SA2. Write daily work report SA3. Write grievance complaint application
	Reading Skills
	SA4. Read and comprehend written instructions
B. Professional Skills	Oral Communication (Listening and Speaking skills)
	SA5. Communicate with superiors appropriately SA6. Talk to workers to convey information effectively
	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. make decisions pertaining to the concerned area of work
	Plan and Organize
	The user/individual on the job needs to know and understand: SB2. plan and organize service feedback files/documents
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB3. manage relationships with customers SB4. build customer relationships and use customer centric approach
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB5. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB6. deal with clients lacking the technical background to solve the problem on their own SB7. identify immediate or temporary solutions to resolve delays
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB8. use the existing data to arrive at specific data points
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB9. apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action

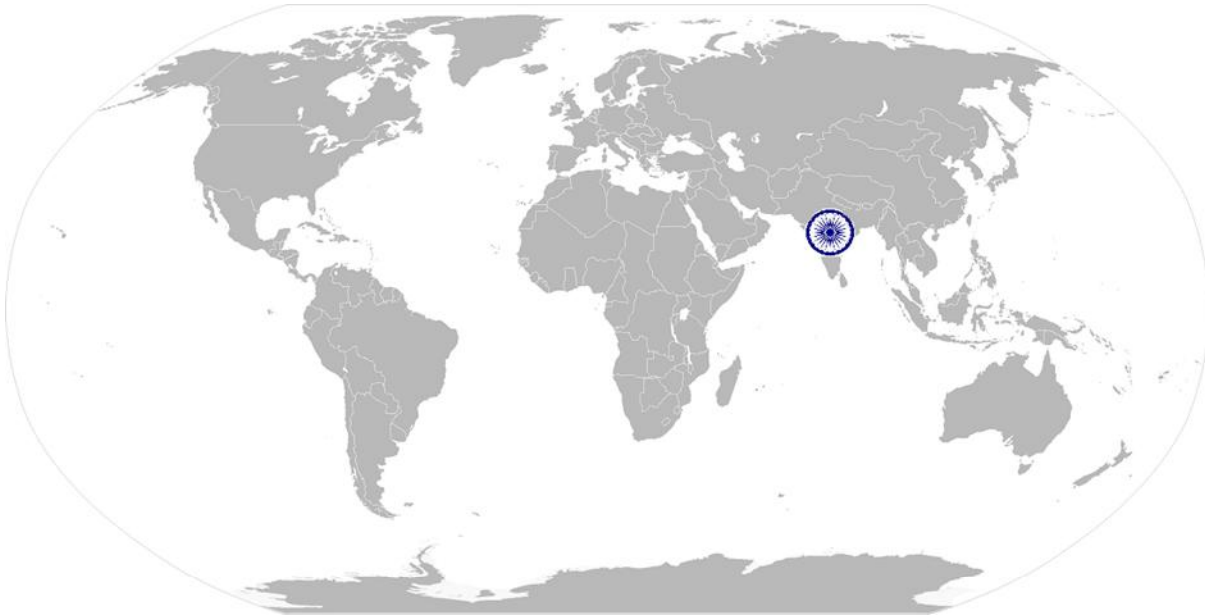


HCS/N9908

Working in a team

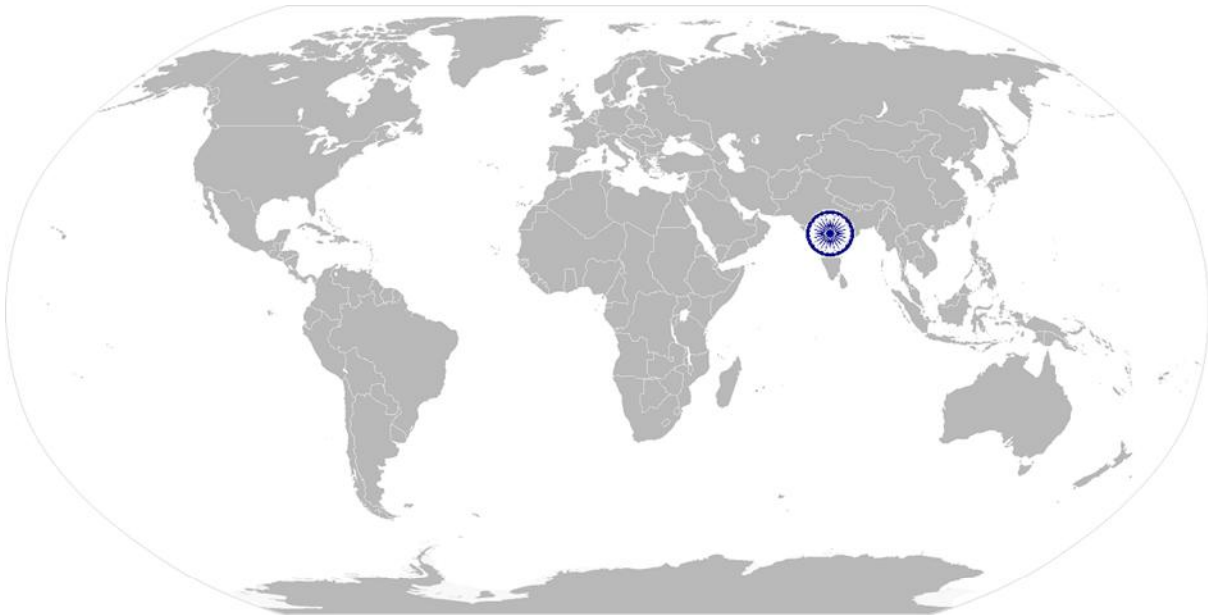
**NOS Version Control**

NOS Code	HCS/N9908		
Credits (NSQF)	TBD	Version number	1.0
Industry	Handicrafts and carpet	Drafted on	30/04/15
Industry Sub-sector	Carpet	Last reviewed on	27/05/15
Occupation	Weaving	Next review date	26/05/16





# National Occupational Standard



## Overview

This unit is about maintaining work areas and activities to ensure health, safety & security are maintained as per norms.



HCS/N9907

**Maintain health, safety and security at work place**

National Occupational Standard	Unit Code	HCS/N9907
	Unit Title (Task)	Maintain health, safety and security at work place
	Description	This unit provides performance criteria, knowledge & understanding and skills & abilities required to comply with health, safety and security requirements at the workplace and covers procedures to prevent, control and minimize risk to self and others.
	Scope	This unit/task covers the following: <ul style="list-style-type: none"> <li>To comply with health, safety and security requirements at work</li> </ul>
	Performance Criteria(PC) w.r.t. the Scope	
	Element	Performance Criteria
	Comply with health, Safety and security requirements at work	<p>PC1. Comply with health and safety related instructions applicable to the workplace</p> <p>PC2. Use and maintain personal protective equipment such as “Nose Mask” etc. as per protocol</p> <p>PC3. Carry out own activities in line with approved guidelines and procedures</p> <p>PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants</p> <p>PC5. Follow environment management system related procedures</p> <p>PC6. Identify and correct (if possible) malfunctions in machinery and equipment</p> <p>PC7. Report any service malfunctions that cannot be rectified</p> <p>PC8. Store materials and equipment in line with organisational requirements</p> <p>PC9. Safely handle and remove waste</p> <p>PC10. Minimize health and safety risks to self and others due to own actions</p> <p>PC11. Seek clarifications, from supervisors or other authorized personnel in case of perceived risks</p> <p>PC12. Monitor the workplace and work processes for potential risks and threat</p> <p>PC13. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned</p> <p>PC14. Report hazards and potential risks/threats to supervisors or other authorized personnel</p> <p>PC15. Participate in mock drills/ evacuation procedures organized at the workplace</p> <p>PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so</p> <p>PC17. Take action based on instructions in the event of fire, emergencies or accidents</p> <p>PC18. Follow organisation procedures for shutdown and evacuation when required</p>
	Knowledge and Understanding (K)	
	B. Organizational Context (Knowledge of the company / organization and	<p>KA1. Health and safety related practices applicable at the workplace</p> <p>KA2. Potential hazards, risks and threats based on nature of operations</p> <p>KA3. Organizational procedures for safe handling of equipment and machine operations</p> <p>KA4. Potential risks due to own actions and methods to minimize them</p> <p>KA5. Environmental management system related procedures at the workplace</p>



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**Maintain health, safety and security at work place**

its processes)	<p>KA6. Layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points</p> <p>KA7. Potential accidents and emergencies and response to these scenarios</p> <p>KA8. Reporting protocol and documentation required</p> <p>KA9. Details of personnel trained in first aid, fire-fighting and emergency response</p> <p>KA10. Actions to take in the event of a mock drills/ evacuation procedures or actual accident, emergency or fire</p>
B. Technical Knowledge	<p>KB1. Occupational health and safety risks and methods</p> <p>KB2. Personal protective equipment and method of use</p> <p>KB3. Identification, handling and storage of hazardous substances</p> <p>KB4. Proper disposal system for waste and by-products</p> <p>KB5. Signage related to health and safety and their meaning</p> <p>KB6. Importance of sound health, hygiene and good habits</p> <p>KB7. Ill-effects of alcohol, tobacco and drugs</p>
<b>Skills (S) [Optional]</b>	
A. Core Skills/ Generic Skills	Writing Skills
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. prepare status and progress reports</p> <p>SA2. write memos and e-mail to co-workers, and vendors to provide them with work updates and to request appropriate information without English language errors regarding grammar or sentence construct</p>
	Reading Skills
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA3. keep abreast with the latest knowledge by reading brochures, pamphlets, and product information sheets</p>
	Oral Communication (Listening and Speaking skills)
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA4. discuss task lists, schedules, and work-loads with co-workers</p> <p>SA5. keep coworker and supervisor informed about progress</p>
B. Professional Skills	Decision Making
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. make decisions pertaining to the concerned area of work</p>
	Plan and Organize
	<p>The user/individual on the job needs to know and understand:</p> <p>SB2. plan and organize service feedback files/documents</p>
	Customer Centricity



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**Maintain health, safety and security at work place**

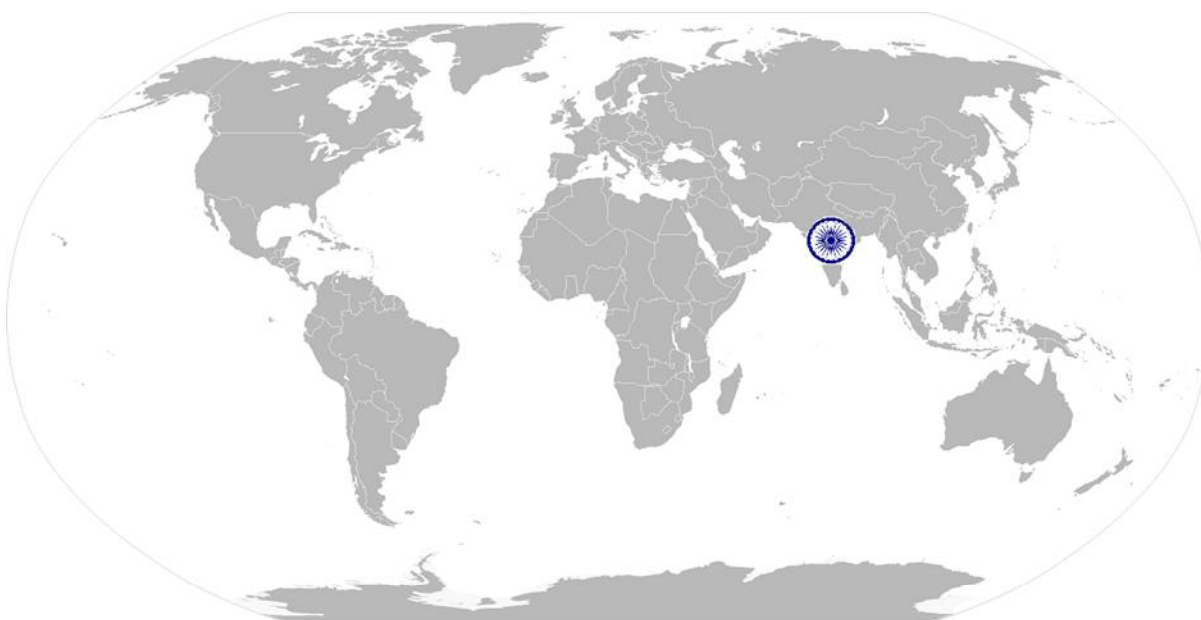
	The user/individual on the job needs to know and understand how to: SB3. manage relationships with customers SB4. build customer relationships and use customer centric approach
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB5. Raise alarm in case of emergency SB6. Safe and correct procedure of handling equipment and machinery SB7. Identify, report malfunctions in machinery and equipment and correct them if possible SB8. Identify and report service malfunctions and chemical leaks SB9. Keep work area free from potential hazards SB10. Report to supervisors and other authorized personnel for assistance think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB11. identify immediate or temporary solutions to resolve delays
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB12. use the existing data to arrive at specific data points
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB13. apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action

**NOS Version Control**

NOS Code	HCS/N9907		
Credits (NSQF)	TBD	Version number	1.0
Industry	Handicrafts and carpet	Drafted on	30/04/15
Industry Sub-sector	Carpet	Last reviewed on	27/05/15
Occupation	Weaving	Next review date	26/05/16



# National Occupational Standard



## Overview

This unit covers performance criteria, knowledge & understanding and skills abilities required to comply with legal and organization requirements.





HCS/N9909

**Comply with industry and organizational requirements**

National Occupational Standard	Unit Code	HCS/N9909
	Unit Title (Task)	Comply with industry and organizational requirements
	Description	This unit is about knowing, understanding, and complying with the requirements of the organization and carpet industry
	Scope	This unit/task covers the following: <ul style="list-style-type: none"> <li>To Comply with legal and organizational requirements</li> </ul>
	Performance Criteria(PC) w.r.t. the Scope	
	Element	Performance Criteria
	Comply with legal and ethical requirements	PC1. Carry out work functions in accordance with legislation and regulations, organizational guidelines and procedures PC2. Seek and obtain clarifications on policies and procedures, from your supervisor or other authorized personnel PC3. Apply and follow these policies and procedures within your work practices PC4. Provide support to your supervisor and team members in enforcing these considerations PC5. Identify and report any possible deviation to these requirements
	Knowledge and Understanding (K)	
	A. Organizational Context (Knowledge of the company / organization and its processes)	KA1. The importance of having an ethical and value-based approach KA2. Benefits to your company and yourself due to practice of these procedures KA3. The importance of punctuality and attendance KA4. Specific to the industry/sector, know and understand: <ul style="list-style-type: none"> <li>Legal and ethical requirements</li> <li>Procedures to follow if someone does not meet the requirements</li> </ul> KA5. Customer specific requirements mandated as a part of your work process
	B. Technical Knowledge	KB1. Customer specific regulations and their importance KB2. Reporting procedure in case of deviations KB3. Limits of personal responsibility
Skills (S) [Optional]		
A. Core Skills/ Generic Skills	Writing Skills The user/ individual on the job needs to know and understand how to: SA1. prepare status and progress reports SA2. write memos and e-mail to co-workers, and vendors to provide them with work updates and to request appropriate information without English language errors regarding grammar or sentence construct	



HCS/N9909

**Comply with industry and organizational requirements**

	Reading Skills
	The user/individual on the job needs to know and understand how to: SA3. keep abreast with the latest knowledge by reading brochures, pamphlets, and product information sheets
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA6. discuss task lists, schedules, and work-loads with co-workers SA7. keep coworker and supervisor informed about progress
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. make decisions pertaining to the concerned area of work
	Plan and Organize
	The user/individual on the job needs to know and understand: SB2. plan and organize service feedback files/documents
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB3. manage relationships with customers SB4. build customer relationships and use customer centric approach
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB5. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB6. identify immediate or temporary solutions to resolve delays SB7. Take appropriate decisions related to responsibilities SB8. Follow the given standards SB9. Procedure to comply with the standards SB10. Plan and manage work routine based on company procedure SB11. Positively influence your team members into follow procedures as required SB12. Participate and influence your organization's response towards these procedures
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB13. use the existing data to arrive at specific data points
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB14. apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action

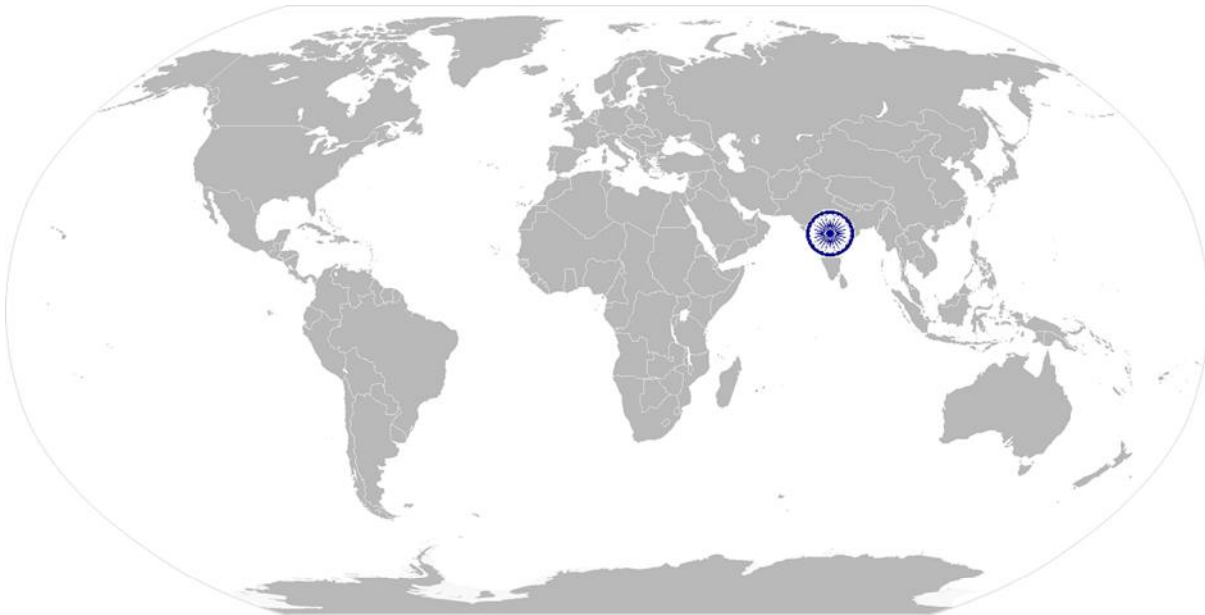


HCS/N9909

Comply with industry and organizational requirements

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Credits (NSQF)	TBD	Version number	1.0
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CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Tufting Gun Master

Qualification Pack HCS/Q5409

Sector Skill Council Handicrafts and Carpet

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

		Marks Allocation			
		Total Mark	Out Of	Theory	Skills Practical
1. HCS/N5409 - Weaving of tufted carpet	PC1. Operate the tufting gun on separate test fabric materials	50	2	0	2
	PC2. Check for tuft density of test sample		2	0	2
	PC3. For electrically operated tufting gun, check for power connectivity as accessible and free from hazards		2	0	2
	PC4. Inform supervisor for any defects detected with the equipment		5	2	3
	PC5. Understand buyer's defined and implied requirements for quality and product conformity		5	2	3



	PC6. Collect all information needed like carpet design, shade card, yarn types, tuft type, cut pile height, tuft density, etc		5	2	3
	PC7. Identify and highlight constraints affecting production, quality and target delivery		3	1	2
	PC8. Check yarn shade as per design particulars		2	1	1
	PC9. Check for clarity of design traced onto fabric		2	0	2
	PC10. Check for design matches with tufted loom frame size etc		5	2	3
	PC11. Check for type of tufting gun used [manual generally used for 16-20 tuft/inch <sup>2</sup> and electrically operated for 30-36 tuft/inch <sup>2</sup> ]		5	2	3
	PC12. Check Pile height for loop and cut type		2	2	0
	PC13. Ensure tufting is done as per requirements of ply and spacing defined		5	2	3
	PC14. Identify different types of faults likely to be encountered during tufting		5	2	3
		TOTAL	50	18	32
2. HCS/N5410 - Repairing of Tufting Guns	PC1. Analyse the faults and its severity on process, product and safety 1. Mechanical faults 2. Electrical faults 3. Faults due equipment limitation	50	8	3	5



	PC2. Diagnose fault cause and its severity e.g. excessive loop quality, fabric tearing, loop skip, etc		13	5	8
	PC3. Repair by replacing the damaged parts with new one		8	0	8
	PC4. Repair by rectifying components by fabricated components in-house		5	0	5
	PC5. Rectify equipment limitation by fabricated components developed in-house		9	0	9
	PC6. Find economic solution to faults		7	2	5
		Total	50	10	40
3. HCS/N9906 - Maintain workarea, tools and machines	PC1. handle materials, machinery, equipment and tools with care and use them in correct way	50	13	5	8
	PC2. Use correct lifting and handling procedures		5	2	3
	PC3. maintain clean and hazard free working area		5	2	3
	PC4. carry out running maintenance of within agreed schedules		5	2	3
	PC5. carry out maintenance and/or cleaning within one's responsibility		5	2	3
	PC6. report unsafe equipment and other dangerous occurrences		5	2	3
	PC7. use clean equipment and methods appropriate for the work to be carried out		2	2	0
	PC8. dispose of waste safely in the designated location		5	2	3



	PC9. store equipment safely after use		5	2	3
		Total	50	21	29
4. HCS/N9908 - Working in a team	PC1. Be responsible for one's own action and role	50	5	2	3
	PC2. Perform all roles with full commitment		5	2	3
	PC3. Be effective and efficient at workplace		7	2	5
	PC4. Communicate effectively about company policies and expectations		7	2	5
	PC5. Report problems faced during the process		4	1	3
	PC6. Talk politely with team members, sub-ordinates, superiors and colleagues		4	1	3
	PC7. Adapt to different work situations		5	1	4
	PC8. Give due importance to others' point of view		3	1	2
	PC9. avoid conflicting situations		6	1	5
	PC10. Collaborate with colleagues performing the pre-required and post-required tasks as extra from defined span of tasks		4	1	3
		Total	50	14	36
5. HCS/N9907 - Maintain Health, Safety and Security at Workplace	PC1. Comply with health and safety related instructions applicable to the workplace	75	4	1	3
	PC2. Use and maintain personal protective equipment such as "Nose Mask" etc. as per		3	1	2



	protocol			
PC3.	Carry out own activities in line with approved guidelines and procedures	5	2	3
PC4.	Maintain a healthy lifestyle and guard against dependency on intoxicants	3	1	2
PC5.	Follow environment management system related procedures	3	1	2
PC6.	Identify and correct (if possible) malfunctions in machinery and equipment	3	1	2
PC7.	Report any service malfunctions that cannot be rectified	3	1	2
PC8.	Store materials and equipment in line with organisational requirements	4	1	3
PC9.	Safely handle and remove waste	4	1	3
PC10.	Minimize health and safety risks to self and others due to own actions	4	1	3
PC11.	Seek clarifications, from supervisors or other authorized personnel in case of perceived risks	4	2	2
PC12.	Monitor the workplace and work processes for potential risks and threat	8	2	6
PC13.	Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	5	1	4





	PC14. Report hazards and potential risks/threats to supervisors or other authorized personnel		5	2	3
	PC15. Participate in mock drills/evacuation procedures organized at the workplace		6	2	4
	PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so		2	0	2
	PC17. Take action based on instructions in the event of fire, emergencies or accidents		3	0	3
	PC18. Follow organisation procedures for shutdown and evacuation when required		6	2	4
		Total	75	22	53
6. HCS/N9909 - Comply with industry and organizational requirement	PC1. Carry out work functions in accordance with legislation and regulations, organizational guidelines and procedures	25	7	2	5
	PC2. Seek and obtain clarifications on policies and procedures, from your supervisor or other authorized personnel		6	1	5
	PC3. Apply and follow these policies and procedures within your work practices		4	0	4
	PC4. Provide support to your supervisor and team members in enforcing these considerations		4	1	3
	PC5. Identify and report any possible deviation to these requirements		4	1	3
			Total	25	5