



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR HANDICRAFTS AND CARPET SECTOR

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-Dyer (Rangsaaz)

SECTOR: Handicrafts and Carpet

SUB-SECTOR: Carpet

OCCUPATION: Processing

REFERENCE ID: HCS/Q5101

ALIGNED TO:NCO-2004/8264.70

Dyer (Rangsaaz) The Dyer commonly called as Rangsaaz is responsible for dyeing of woolen, viscose (art silk), cotton as well as new materials of Polypropylene, banana yarn, silk etc mainly in hank (lachchi) form

Brief Job Description: The Dyer is a job role responsible for dyeing of yarn of various chemical origins like cotton, viscose, wool, silk to synthetic materials either with traditional methods with little automation to specially developed hank dyeing machines. The dyed materials are expected to match with standard shades for hue, tone as well as conform to requirements for desired level of fastness.

Personal Attributes: The dyer should be keen, vigilant, good eyesight, patient and investigative. He should be free from defects of colour vision. He should have keen interest on learnings





Qualifications Pack Code	HCS/Q5101			
Job Role	Dyer (Rangsaaz)			
Credits (NSQF)	TBD		Version number	1.0
Sector	Handicra	Ifts and Carpet	Drafted on	30/04/15
Sub-sector	Carpet		Last reviewed on	27/05/15
Occupation	Processir	ng	Next review date	26/05/16
Job Role		Dyer (Rangsaaz)		
Role Description		To execute process plan steps in strict sequence and harmony in selection, weighing, addition of dyes and chemicals to monitoring for the complete dyeing cycle defined exclusively in parlance with materials, environmental conditions and machines/method of dyeing in consideration.		
NSQF level		4		
Minimum Educational Qualifi	cations*	Preferably Class	XII with Science	
Maximum Educational Qualif	cations*	Not Applicable		
Training (Suggested but not mandatory	Not Applicable			
Experience	1-2 years of working experience in textile/apparel/carpet process house			
Applicable National Occupational Standards (NOS)		 Compulsory: <u>HCS/N5101 Operating the Weighing scale and Weighing of Dyes & Chemicals</u> <u>HCS/N5102 Dissolving & Dispensing of Dyes, Chemicals & Auxiliaries</u> <u>HCS/N5103 Developing Recipe for Dyeing of Textile Materials</u> <u>HCS/N9906 Maintain work area, tools and machines</u> <u>HCS/N9908 Working in a team</u> <u>HCS/N9907 Maintain health, safety and security at workplace</u> <u>HCS/N9909 Comply with industry and organizational requirement</u> 		
		Optional: Not Applicable		
Performance Criteria	Performance Criteria			





	Keywords /Terms	Description
Definitions	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.
Defi	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 3





	contents defined in relation to functioning of an organization that a skilled	
	professional need to possess specific to its precise areas of responsibility.	
Technical	Technical Knowledge is the specific domain knowledge needed to	
Knowledge	accomplish the task in combination with other competencies. It is usually	
	coined with specifically designated roles and responsibilities.	
Core Skills/Generic	Core Skills or Generic Skills as set are group of skills. It is key to working in	
Skills	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.	
Keywords /Terms	Description	
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	
TDS	Total Dissolved Solid	
MLR	Material to Liquor Ratio	

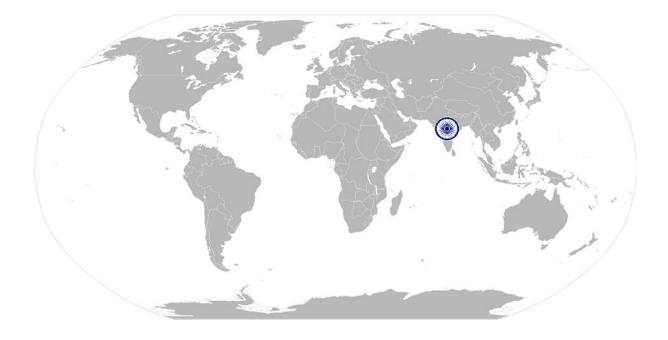






Operating the Weighing scale and Weighing of Dyes & Chemicals

National Occupational Standard



Overview

This unit is NOS is about operating the Weighing scale, and method of weighing dyes & chemicals with precision to eliminate/minimize causes leading to uneven dyeing and shade variation.







Operating the Weighing scale and Weighing of Dyes & Chemicals

Unit Code	HCS/N5101
Unit Title (Task)	Operating the Weighing scale and Weighing of Dyes & Chemicals
Description	This unit is about inventory of supervisory skills, knowledge, tools and techniques needed for execution of the task of planning, execution and proper implementation of plan so as to ensure tufted carpets are being produced with specified quality level and delivered as per schedule defined.
Scope	 This unit/task covers the following: Carry out preparatory activities to the operations and/or equipment Operate the equipment for the specified task as per work order Clean the machine
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Carrying out preparatory activities to weighing of dyes and chemicals	 PC1. Understand the task mentioned in the Job Order received for dyeing. PC2. Understand MSDS (Material Safety Data Sheet) as applicable to dyes and chemicals. PC3. Use proper PPE like "hand gloves" and nose mask" etc as applicable PC4. Ensure the workplace is well lit and ventilated PC5. Ensure weighing machine with correct resolution is used PC6. Ensure that all weighing scale are calibrated and clean PC7. Where mixers are used, ensure they are clean PC8. Ensure suitable spoon/spatula is used for handling of dyes and chemicals PC9. Check that previously mixed dyes / chemicals are dispensed and dyeing tank is clean
Activities related to weighing of Dyes & Chemical	 PC10. Check the zero setting of weighing balance PC11. Read & understand the dyestuff and chemicals to be weighed PC12. Use correct spoon, spatula and/or correct carrier to pick dyes & chemicals PC13. Check the quantity of dyestuff to be weighed PC14. Weigh all dyestuff separately PC15. Weigh all the chemicals separately PC16. Weigh the bigger quantity first & smaller in the last PC17. Use non-sticky papers for weighing of dyes PC18. Weigh smaller quantity (less than 20 gm) on precision balance PC19. Clean the weighing pan after every use PC20. Check and reconfirm the total weight
Reporting and Recording of Inspection Results Knowledge and Unders	 PC21. Where applicable create batch for dyes and chemicals with suitable lot indication PC22. Record details of batch in log book







HCS/N5101		ng the Weighing scale and Weighing of Dyes & Chemicals
	Organizational Context (Knowledge of the company/ organization and its processes) Technical Knowledge	ng the Weighing scale and Weighing of Dyes & Chemicals KA1. general rules and regulations in a carpet processing section KA2. MSDS about dyes and chemicals KA3. Safe working practices KA4. The process of dyeing and how it is affected by previous processes and how it affects subsequent processes KA5. Basic knowledge about dyes, chemicals and substrates of dyeing Type of fiber, yarn and fabric being processed KB1. KB1. Understandings about • types of fibres types of fibres • types of yarn Yarn thickness, surface characteristics and texture • Chemistry of dyes and chemicals Process parameters • Machine parameters Machine parameters • Dyeing cycle types of dyeing defects and their remedy • Fastness of dyes Measurement/estimation of dye fastness • Tools and equipments used like spoon, coops, beaker, jar, flask, stirrer etc • Precision and accuracy of weighing methods and weighing balance • Control functions on equipment KB2. Rinsing tank and process of injecting/dispensing chemicals and dyestuff solutions at intervals KB3. process flow in handmade carpet manufacturing processing sector KB4. importance of marking/codi
		KB7. Method to make use of the information detailed in specifications and Work instructions
Ski	ills (S) [Optional]	
Α.	Core Skills/	Writing Skills
	Generic Skills	 The user/ individual on the job needs to know and understand how to: SA1. Write instruction clearly and legibly SA2. prepare status and progress reports SA3. write memos and e-mail to customers, co-workers, and vendors to provide them with work updates and to request appropriate information without English language errors regarding grammar or sentence construct
		Reading Skills
		 The user/individual on the job needs to know and understand how to: SA4. Read and comprehend written instructions SA5. keep abreast with the latest knowledge by reading brochures, pamphlets, and product information sheets







Operating the Weighing scale and Weighing of Dyes & Chemicals

	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 co-workers and supervisors informed about progress SA8. Communicate with supervisor appropriately
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. Apply problem-solving approaches in different situations SB6. Seek clarification on problems from others SB7. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB8. identify immediate or temporary solutions to resolve delays Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB9. 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: SB10. apply, analyze, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to thought and action SB11. Apply good attention to detail SB12. Check work is complete and free from errors







Operating the Weighing scale and Weighing of Dyes & Chemicals

NOS Version Control

NOS Code	HCS/N5101		
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	Processing	Next review date	26/05/16



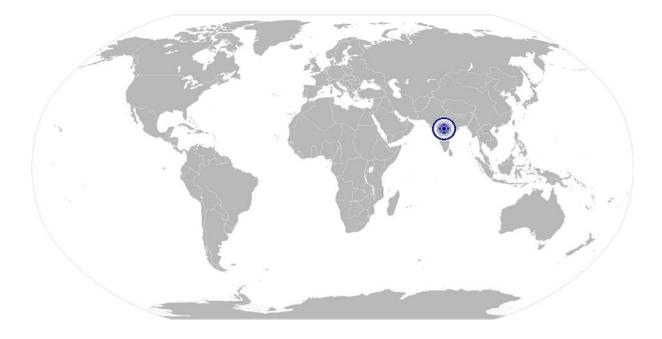






Dissolving and Dispensing of Dyes, Chemicals and Auxiliaries

National Occupational Standard



Overview

This unit is about Dissolving & Dispensing of Dyestuff, Chemicals & Auxiliaries.







Unit Code	HCS/ N5102			
Unit Title (Task)	Dissolving and Dispensing of Dyes, Chemicals and Auxiliaries			
	This unit provides Performance Criteria, Knowledge & Understanding and Skills & Abilities required to dissolve dyestuff, chemicals and dispensing the mixture to assis level dyeing.			
	This unit/task covers the following: Dissolving & Dispensing the dyestuff, chemicals & auxiliaries			
Performance Criteria(PC) w.r.t. the Scope				
Element	Performance Criteria			
Dispensing of Dyestuff and Chemicals	 PC1. Take a little amount of water with/without a small amount of wetting agent PC2. Add first a small amount of dyestuff and make paste PC3. Dilute with required amount of water and dilute while stirring continuously PC4. Add amount of chemicals and auxiliaries and stir to mix well PC5. Take the required quantity of water in tank PC6. Heat it up to the specified mixing temp PC7. Pour the solution prepared with weighed dyestuff, chemicals & auxiliaries slowly into the tank while stirring PC8. Avoid dusting or splashing of dyes & chemicals while preparing solution PC9. Dispense the solution of dissolved dyes with chemicals & auxiliaries to the machine tanks at regular intervals at defined installment PC10. Flush the line after every dispensing 			
Knowledge and Underst	anding (K)			
A. Organizational Context (Knowledge of the company / organization and its processes)	 KA1. Safe working practices and organizational procedures KA2. Limits of your own responsibility KA3. Ways of resolving problems within the work area KA4. The effect of the process of dissolution and dispensing on the whole process manufacturing processes KA5. The importance of effective communication with supervisors KA6. The approved lines of communication, authority and reporting procedures KA7. The organization's rules, codes and guidelines (including timekeeping) KA8. The company's quality standards 			







B. Technical	KB1. Role of Wetting agent
Knowledge	KB2. Dyeing defects due poor dissolution and improper dispension
	KB3. Checking of proper dissolution of dyestuffs
	KB4. Purpose of Dispensing in installment
	KB5. Process of dyeing
	KB6. Understanding about
	 Chemistry of olour
	 Additive and Subtractive colour mixture
	KB7. Techniques and Technology of dyeing of cellulosic, synthetic and proteinou
	materials
	KB8. Safe working practices for house keeping
Skills (S) [Optional]	
A. Core Skills/	Writing Skills
Generic 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 customers, co-workers, and vendors to provide
	them with work updates and to request appropriate information without English language errors regarding grammar or sentence construct
	English language en ors regarding gradinal of sentence construct
	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,
	product information sheets
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA4. discuss task lists, schedules, and work-loads with co-workers
	SA5. keep co-workers and supervisors 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 manage work in line with company procedure and priority
	SB3. plan and organize service feedback files/documents
	Customer Centricity
	The user/individual on the job needs to know and understand how to:
	SB4. manage relationships with customers







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SB5. build customer relationships and use customer centric approach
Problem Solving
 The user/individual on the job needs to know and understand how to: SB6. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) 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



NOS Code		HCS/N5102	the make
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	Processing	Next review date	26/05/16

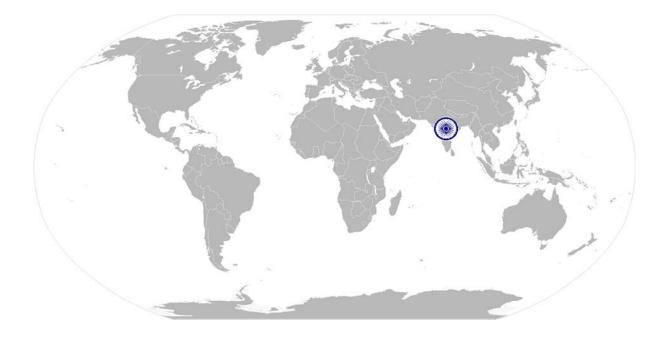






Developing Recipe for dyeing of textile materials

National Occupational Standard



Overview

This unit is about developing dyeing recipe for dyeing of cellulosic, protein and synthetic yarns in hank form.







HCS/N5	103	Developing Recipe for dyeing of textile materials		
	Unit Code	HCS/N5103		
Ird	Unit Title (Task)	Developing Recipe for dyeing of textile materials		
anda	Description	This unit provides performance criteria, knowledge & understanding and skills & abilities required to develop dyeing recipe for dyeing of textile materials.		
ational Sta	Scope	 This unit/task covers the following: Recipe for dyeing of cellulosic origins e.g. cotton and viscose Recipe for dyeing of synthetic origins e.g. polyester, polypropylene etc Recipe for dyeing of protein origins e.g. wool, silk etc. 		
cnb	Performance Criteria(PC) w.r.t. the Scope			
ŏ	Element	Performance Criteria		
National Occupational Standard	Developing Recipe for Dyeing Knowledge and Unders A. Organizational	 PC1. Can identify textiles materials for broad class of origins – cellulosic, protein , synthetic PC2. Can identify substantive dye class as per textile material class PC3. Can identify dye class with suitable colour fastness and other parameters PC4. Can describe Techniques and technology of dyeing of different textile materials PC5. Can identify hues and tones of coloured textile materials PC6. Can dissolve dyes to prepare dye solution PC7. Can define dyeing process cycle with complete steps of dyeing PC8. Operate Lab dip machine or suitable method for developing dyeing recipe PC9. store equipment safely after use PC10. maintain clean and hazard free working area 		
	A. Organizational Context (Knowledge of the company/ organization and its processes)	 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. Chemistry of dye class and affinity KB2. Chemistry of various textile materials KB3. MSDS of Dyes and Chemicals KB4. Water quality parameters like TDS, TSS, pH, etc KB5. Effect of MLR on overall dyeing process KB6. Physical and chemicals Parameters affecting process of dyeing KB7. Monitoring and control of parameters KB8. Dyeing programme and dyeing cycle KB9. Techniques and purpose of rinsing, washing etc KB10. Fastness of Dyes e.g. Washing, Rubbing, Light etc KB11. Measurement of colour fastness KB12. Operation and Control of Hank Dyeing Machine 		







HCS/N5103	Developing Recipe for dyeing of textile materials
	 KB13. Work instructions related to dyeing and ability to interpret them accurately KB14. relation between work role and the overall manufacturing process KB15. Hazards likely to be encountered when carrying the process KB16. safe working practices KB17. common faults with equipment and the method to rectify
Skills (S) [Optional]	
A. Core Skills/	Writing Skills
Generic 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 customers, co-workers, and vendors to provide them with work updates and to request appropriate information without English language errors regarding grammar or sentence construct 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: SA4. discuss task lists, schedules, and work dads with co-workers SA5. keep co-workers and supervisors 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
	SB3. plan and manage work routine based on company procedure
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. manage relationships with customers SB5. build customer relationships and use customer centric approach Problem Solving
	The user/individual on the job needs to know and understand how to: SB6. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB7. identify immediate or temporary solutions to resolve delays
	Analytical Thinking







HCS/N51	03	Developing Recipe for dyeing of textile materials
		The user/individual on the job needs to know and understand how to:
		SB8. use the existing data to arrive at specific data points
		SB9. solve operational role related to issues
		Critical Thinking
		The user/individual on the job needs to know and understand how to:
		SB10. 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/N5103	
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	Processing	Next review date	26/05/16

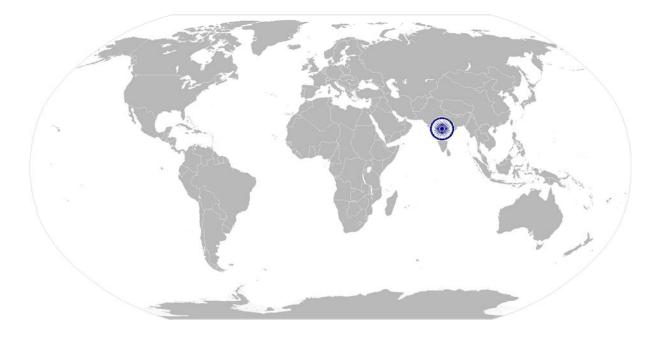






Maintaining work area, tools and machines

National Occupational Standard



Overview

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







Maintaining work area, tools and machines

ng and skills & ensure tools and			
Performance Criteria(PC) w.r.t. the Scope			
to be carried out			
er use			
) process ocess			
foreign materials			
w to: ovide them with thout English			
w to: res, pamphlets, and			







Maintaining	work area	tools and	machina
Maintaining	wurk area,	tools and	machines

////	Maintaining work area, tools and machines
	product information sheets
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA4. discuss task lists, schedules, and work-loads with co-workers SA5. 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 manage work routine based on company procedure
	SB3. plan and organize service feedback files/documents
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. manage relationships with customers SB5. build customer relationships and use customer centric approach
	Problem Solving
	 The user/individual on the job needs to know and understand how to: SB6. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) 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







Maintaining work area, tools and machines

NOS Version Control

NOS Code	HCS/N9906		
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	Processing	Next review date	26/05/16



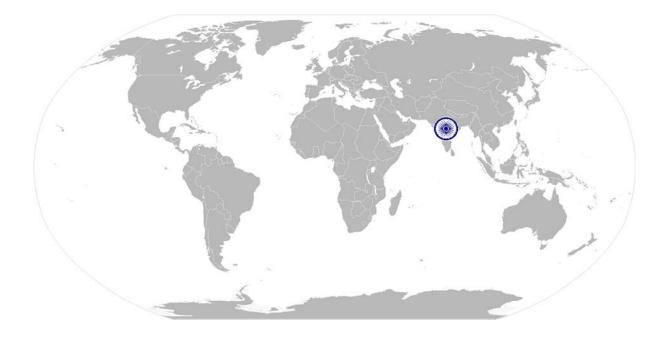






Working in a team

National Occupational Standard



Overview

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







Standard
Occupational
National

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	 Commitment and trust Communication Adaptability Creative freedom 	
Performance Criteria(P	C) w.r.t. the Scope	
Element	Performance Criteria	
Commitment and trust	 PC1. Be accountable to one's own role in whole process 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 Unders	standing (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 	
	Unit Title (Task)DescriptionScopePerformance Criteria(PElementCommitment and trustCommunicationAdaptabilityCreative freedomKnowledge and Underst (Knowledge of the company / organization and	







HCS/N9908	Working in a team		
B. Technical Knowledge	 KB1. Understanding the importance of the previous and next step of the process KB2. Process flow in a carpet manufacturing 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]			
A. Core Skills/ Generic Skills	Writing SkillsSA1. Write instructions in local languageSA2. Write daily work reportSA3. Write grievance complaint applicationReading Skills		
	SA4. Read and comprehend written instructions		
	Oral Communication (Listening and Speaking skills) SA5. Communicate with superiors appropriately SA6. Talk to workers to convey information effectively		
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. 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 		







Working in a team

Working in a team				
	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			

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	Processing	Next review date	26/05/16

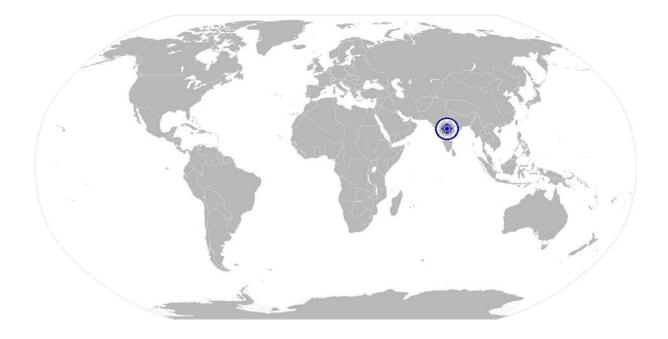






Maintain health, safety and security at work place

National Occupational Standard



Overview

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







National Occupational Standard

Maintain health, safety and security at work place

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: To comply with health, safety and security requirements at work
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Comply with health, Safety and security requirements at work	 PC1. Comply with health and safety related instructions applicable to the workplace PC2. Use and maintain personal protective equipment such as "Nose Mask" etc. as per protocol
	 PC3. Carry out own activities in line with approved guidelines and procedures PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants PC5. Follow environment management system related procedures PC6. Identify and correct (if possible) malfunctions in machinery and equipment PC7. Report any service malfunctions that cannot be rectified PC8. Store materials and equipment in line with organisational requirements PC9. Safely handle and remove waste PC10. Minimize health and safety risks to self and others due to own actions PC11. Seek clarifications, from supervisors or other authorized personnel in case of perceived risks PC12. Monitor the workplace and work processes for potential risks and threat PC13. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned PC14. Report hazards and potential risks/threats to supervisors or other authorized personnel PC15. Participate in mock drills/ evacuation procedures organized at the workplace PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so PC17. Take action based on instructions in the event of fire, emergencies or accidents
Knowledge and Unders	PC18. Follow organisation procedures for shutdown and evacuation when required standing (K)
A. Organizational	KA1. Health and safety related practices applicable at the workplace
Context	KA2. Potential hazards, risks and threats based on nature of operations
(Knowledge of the	KA3. Organizational procedures for safe handling of equipment and machine operations
company /	KA4. Potential risks due to own actions and methods to minimize them







HCS/ N9907	Maintain health, safety and security at work place		
organization and its processes) B. Technical Knowledge	 KA5. Environmental management system related procedures at the workplace KA6. Layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points KA7. Potential accidents and emergencies and response to these scenarios KA8. Reporting protocol and documentation required KA9. Details of personnel trained in first aid, fire-fighting and emergency response KA10. Actions to take in the event of a mock drills/ evacuation procedures or actual accident, emergency or fire KB1. Occupational health and safety risks and methods KB2. Personal protective equipment and method of use KB3. Identification, handling and storage of hazardous substances KB4. Proper disposal system for waste and by-products KB5. Signage related to health and safety and their meaning KB6. Importance of sound health, hygiene and good habits KB7. Ill-effects of alcohol, tobacco and drugs 		
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 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: SA1. discuss task lists, schedules, and work-loads with co-workers SA2. 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		







.CS/ N9907	Maintain health, safety and security at work place 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 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	Processing	Next review date	26/05/16

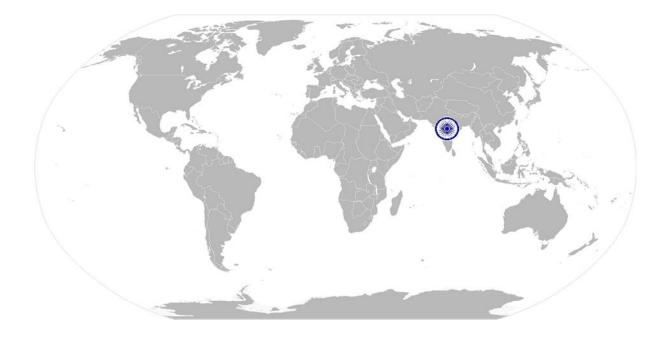






Comply with industry and organizational requirements

National Occupational Standard



Overview

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







Comply with industry and organizational requirements

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: To Comply with legal and organizational requirements
Performance Criteria(P	C) w.r.t. the Scope
Element Comply with legal and ethical requirements	 Performance Criteria 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 Unders	standing (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: Legal and ethical requirements Procedures to follow if someone does not meet the requirements 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







HCS/N9909	Comply with industry and organizational requirements 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
	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
B. Professi	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA4. discuss task lists, schedules, and work-loads with co-workers SA5. keep coworker and supervisor informed about progress Ional 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/documentsCustomer CentricityThe user/individual on the job needs to know and understand how to:SB3.manage relationships with customersSB4.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







Comply with industry and organizational requirements

NOS Version Control

NOS Code		HCS/N9909	
Credits (NSQF)	TBD Version number 1.0		
Industry	Handicrafts and Carpet Drafted on 30/04		30/04/15
Industry Sub-sector	y Sub-sector Carpet		27/05/15
Occupation	Processing	Next review date	26/05/16







CRITERIA FOR ASSESSMENT OF TRAINEES

<u>Job Role</u> Dyer <u>Qualification Pack</u> HCS/Q5101 <u>Sector Skill Council</u> 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 Allo	ocation
			Total Mark (400+100)	Out Of	Theory	Skills Practical
1. HCS/N5101- Operating the Weighing scale and Weighing of Dyes & Chemicals	PC1.	Understand the task mentioned in the Job Order received for dyeing.		5	0	5
	PC2.	Understand MSDS (Material Safety Data Sheet) as applicable to dyes and chemicals.		5	2	3
	PC3.	Use proper PPE like "hand gloves" and "nose mask" etc as applicable	75	2	0	2
	PC4.	Ensure the workplace is well lit and ventilated		2	0	2
	PC5.	Ensure weighing machine with correct resolution is used		3	1	2



PC6.	Ensure that all weighing scale are calibrated and clean
PC7.	Where mixers are used, ensure they are clean
PC8.	Ensure suitable spoon/spatula is used for handling of dyes and chemicals
PC9.	Check that previously mixed dyes / chemicals are dispensed and dyeing tank is clean
PC10.	Check the zero setting of weighing balance
PC11.	Read & understand the dyestuff and chemicals to be weighed
PC12.	Use correct spoon, spatula and/or correct carrier to pick dyes & chemicals
PC13.	Check the quantity of dyestuff to be weighed
PC14.	Weigh all dyestuff separately
PC15.	Weigh all the chemicals separately
PC16.	Weigh the bigger quantity first & smaller in the last
PC17.	Use non-sticky papers for weighing of dyes
PC18.	Weigh smaller quantity (less than 20 gm) on precision balance



2	0	2
1	0	1
1	0	1
0		
5	0	5
10	5	5
5	2	3
3	1	2
3	1	2
5	2	3
3	1	2
4	1	3
3	1	2





	PC19. Clean the weighing pan after every use		3	1	2
	PC20. Check and reconfirm the total weight		3	0	3
	PC21. Where applicable create batch for dyes and chemicals with suitable lot indication		5	2	3
	PC22. Record details of batch in log book		2	0	2
		Total	75	20	55
2. HCS/N5102 - Dissolving and Dispensing of Dyes, Chemicals and Auxiliaries	PC1. Take a little amount of water with/without a small amount of wetting agent		3	1	2
	PC2. Add first a small amount of dyestuff and make paste		1	0	1
	PC3. Dilute with required amount of water and dilute while stirring continuously		3	1	2
	PC4. Add amount of chemicals and auxiliaries and stir to mix well		2	0	2
	PC5. Take the required quantity of water in tank	25	2	0	2
	PC6. Heat it up to the specified mixing temp		1	0	1
	PC7. Pour the solution prepared with weighed dyestuff, chemicals & auxiliaries slowly into the tank while stirring		3	1	2
	PC8. Avoid dusting or splashing of dyes & chemicals while preparing solution		3	1	2



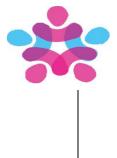


	PC9. Dispense the solution of dissolved dyes with chemicals & auxiliaries to the machine tanks at regular intervals at defined installment		5	2	3
	PC10. Flush the line after every dispensing		2	0	2
		Total	25	6	19
3. HCS/N5103 - Developing Recipe for Dyeing of Textile Materials	PC1. Can identify textiles materials for broad class of origins – cellulosic, protein, synthetic		15	5	10
	PC2. Can identify substantive dye class as per textile material types		17	5	12
	PC3. Can identify dye class with suitable colour fastness and other paramters		8	3	5
	PC4. Can describe Techniques and technology of dyeing of different textile materials		10	8	2
	PC5. Can identify hues and tones of coloured textile materials	100	7	2	5
	PC6. Can dissolve dyes to prepare dye soluution		3	1	2
	PC7. Can define dyeing process cycle with complete steps of dyeing		16	12	4
	PC8. Operate Lab dip machine or suitable method for developing dyeing recipe		16	4	12
	PC9. Store equipment safely after use		2	0	2
	PC10. maintain clean and hazard free working area		6	2	4
			100	42	58





4. HCS/N9906 - Maintain workarea, tools and machines	PC1. handle materials, machinery, equipment and tools with care and use them in correct way		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	50	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
5. HCS/N9908 - Working in a team	PC1. Be responsible for one's own action and role		5	2	3
	PC2. Perform all roles with full commitment		2	2	0
	PC3. Be effective and efficient at workplace	50	5	2	3
	PC4. Communicate effectively about company policies and expectations		5	2	3
	PC5. Report problems faced during the process		4	1	3





				conport	
	PC6. Talk politely with team members, sub-ordinates, superiors and colleagues		4	1	3
	PC7. Adapt to different work situations		3	1	2
	PC8. Give due importance to others' point of view		3	1	2
	PC9. Avoid conflicting situations		4	1	3
	PC10. Collaborate with colleagues performing the pre-required and post-required tasks as extra from defined span of tasks		4	1	3
	PC11. Develop new and innovative ideas enriching task performance		5	2	3
	PC12. Improve upon the existing process and techniques to increase process efficiency		6	2	4
		Total	50	18	32
6. HCS/N9907 - Maintain Health, Safety and Security at Workplace	PC1. Comply with health and safety related instructions applicable to the workplace		4	1	3
	PC2. Use and maintain personal protective equipment such as "Nose Mask"etc. as per protocol	75	3	1	2
	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
PC6.	Identify and correct (if possible) malfunctions in machinery and equipment
PC7.	Report any service malfunctions that cannot be rectified
PC8.	Store materials and equipment in line with organisational requirements
PC9.	Safely handle and remove waste
PC10.	Minimize health and safety risks to self and others due to own actions
PC11.	Seek clarifications, from supervisors or other authorized personnel in case of perceived risks
PC12.	Monitor the workplace and work processes for potential risks and threat
PC13.	Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned
PC14.	Report hazards and potential risks/threats to supervisors or other authorized personnel
PC15.	Participate in mock drills/ evacuation procedures organized at the workplace



3	1	2
3	1	2
3	1	2
4	1	3
4	1	3
4	1	3
4	2	2
8	2	6
5	1	4
5	2	3
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
7. HCS/N9909 - Comply with industry and organizational requirement	PC1. Carry out work functions in accordance with legislation and regulations, organizational guidelines and procedures		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	25	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	20